

iBVD

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5566815519-00110
Version
1

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2021-06-08
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2021-12-29



Uppgiftslämnaren reserverar sig för eventuella fel i produktinformationen eller felaktigt registrerade uppgifter och förbehåller sig rätten att korrigera och/eller komplettera produktinformation utan föregående avisering

1 GRUNDDATA

Varubeskrivning

plastic device installation trunking systems, includes coupling

Övriga upplysningar

Klassificeringar

ETIM ›	
BK04 ›	
BSAB ›	
UNSPSC ›	

Leverantörsuppgifter

Företagsnamn

OBO Bettermann AB

Organisationsnummer

5566815519

Adress

Hemsida

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Miljökontaktperson

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2 HÅLLBARHETSARBETE

Företagets certifiering

- ISO 9000
- ISO 14000

INNEHÅLLSDEKLARATION

Kemisk produkt	Nej
Omfattas varan av RoHS-direktivet	Nej
Varans vikt	3,04 kg

Vara / Delkomponenter

Koncentrationen har beräknats på komponentnivå

Trunking (PVC-U RAL9010) - 99,3% av hela varan

Ingående material /komponenter	Vikt-% i komponent	CAS-nr (alt legering)	EG-nr (alt legering)	Vikt % i produkt	Kommentar
Basic material PVC (Polyvinylchlorid)	82,1%	9002-86-2		81,5253%	Contains Polyvinylchlorid (99,5%), see attached safety data sheet
CA/ZN stabilizer	3,2%			3,1776%	See attached Reach document
Chalk filler (natural calcium carbonate)	12,9%	1317-65-3		12,8097%	Contains natural calcium carbonate, see attached safety data sheet
Titanium dioxide	1,8%	13463-67-7		1,7874%	see attached safety data sheet and Reach document

Coupling (PVC-U RAL9010) - 0,7% av hela varan

Ingående material /komponenter	Vikt-% i komponent	CAS-nr (alt legering)	EG-nr (alt legering)	Vikt % i produkt	Kommentar
Acrylonitrile/butadiene/styrene resin	98%	9003-56-9		0,686%	See attached safety data sheet and technical information
Color batch universal RAL7035 (Masterminds PE gery)	2%			0,014%	See attached safety data sheet

Del av materialinnehållet som är deklarerat 100%

Särskilt farliga ämnen

Varan innehåller INTE några ämnen med särskilt farliga egenskaper (Substances of very high concern, SVHC-ämnen) som finns med på kandidatförteckningen i en koncentration som överstiger 0,1 vikts-%

Utgåva av kandidatförteckningen som har använts

2021-07-08

Nanomaterial

Innehåller produkten tillsatt nanomaterial, som är medvetet tillsatta för att uppnå en viss funktion?: Nej

Tillsatt högflourerade ämnen (PFAS)

Innehåller produkten tillsatt högflourerade ämnen (PFAS), som är aktivt tillsatta för att uppnå en specifik funktion?: Vet ej

Övrigt

Ämnen är redovisade ned till 0,01% viktprocent enligt iBVDs redovisningskrav. Eventuell avvikelser från redovisningskraven redovisas nedan

4

RÅVAROR

Återvunnet material

Innehåller varan återvunnet material: Nej

Träråvara

Träråvara ingår i varan: Nej

5

MILJÖPÅVERKAN

Finns en miljövarudeklaration framtagen enligt EN15804 eller ISO14025 för varan

Nej

Finns annan miljövarudeklaration

Nej

6

DISTRIBUTION**Beskrivning av emballagehantering för distribution av varan**

The main packaging is made of paper/cardboard. In addition, PE film or PE bags are sometimes used as protective packaging.

7

BYGGSCHEDET

Ställer varan särskilda krav vid lagring? Nej

Ställer varan särskilda krav på omgivande byggvaror? Nej

8

BRUKSSCHEDET

Finns skötselansvisningar/skötselråd? Nej

Finns en energimärkning enligt energimärkningsdirektivet (2010/30/EU) för varan? Ej relevant

9

RIVNING

Kräver varan särskilda åtgärder för skydd av hälsa och miljö vid rivning/demontering? Nej

10

AVFALLSHANTERING

Omfattas den levererade varan av förordningen (2014:1075) om producentansvar för elektriska och elektroniska produkter när den blir avfall? Nej

Är återanvändning möjlig för hela eller delar av varan? Nej

Är materialåtervinning möjlig för hela eller delar av varan? Ja

All components can be recycled

Är energiåtervinning möjlig för hela eller delar av varan? Ja

Energy recovery is possible for plastic components

Har leverantören restriktioner och rekommendationer för återanvändning, material- eller energiåtervinning eller deponering? Nej

När den levererade varan blir avfall, klassas den då som farligt avfall?

Nej

Avfallskod (EWC) för den levererade varan

170203

E-nummer	Leverantörens artikelnummer	GTIN
11 766 03	6274500	4012195656739

Produktdatablad Rapid 80 plastic device installation trunking systems.pdf

Prestandadeklaration

Säkerhetsblad

Miljövarudeklaration

Skötselansvisning

Övriga bifogade dokument

-MSDS_Magnum 3453_19042016.pdf
-OBO Reach RoHS engl.pdf
-PDS_Magnum 3453.pdf
-PE70_6453M MSDS 21042021 v1.0.0 EN.PDF
-REACH - SVHC Status 16-Jan-2020.pdf
-sd1076_-_KRONOS Titandioxid_v800_ DE(1).pdf
-SDBL_HC 95 T-OG.pdf
-SDS_S-PVC_DE_23052017.pdf
-TDS PE Grey 70-6453M 04-05-2021 ENG.PDF
-Tronox MasterRAB (April 2021).pdf



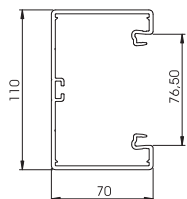
Rapid 80 plastic device installation trunking systems

	Device installation trunking, 1-compartment, trunking width 110 mm	170
	Device installation trunking, 1-compartment, trunking width 130 mm	174
	Device installation trunking, 1-compartment, trunking width 170 mm	178



Trunking height 70 mm, trunking width 110 mm

Device installation trunking, type GK70110

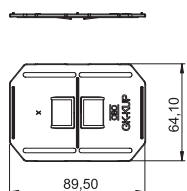


Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-70110RW	Pure white	2000	8	132.000	6274300
GK-70110CW	Cream	2000	8	132.000	6274301
GK-70110LGR	Light grey	2000	8	132.000	6274302
GK-70110GR	Stone grey	2000	8	132.000	6274306

PVC Polyvinylchloride

GK device installation trunking, made of lead-free PVC, suitable for installing directly on the wall or on wall panels. Fastening takes place using the perforation in the trunking. The GK device installation trunking possesses a C profile on the floor to accept a plastic partition. All the switch programmes with a support ring and support clamp design as well as Modul 45 installation devices can be installed in the accessory mounting boxes of series 71GD.... The system opening is 76.5 mm. On each trunking length, a coupling pair is pre-assembled on one side. The cover must be ordered separately.

Coupling

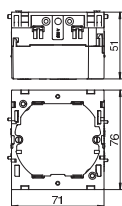


Type	Colour	Pack. PU	Weight kg/100 PUs	Item No.
GK-KUP	Light grey	1	2.140	6274650

ABS/ASA Acrylonitrile butadiene styrene

Coupling as trunking connector for tight connection of the trunking sections. A coupling pair is included and pre-mounted for each stock length.

Accessory mounting box, single

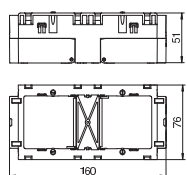


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
71GD6	Iron grey	5	5.600	6288610

PA Polyamide

Front locking accessory mounting box for switch systems, with folding, and also removable, base for time saving cable connection, with feed openings for cable diameters of up to 14 mm.

Accessory mounting box, double

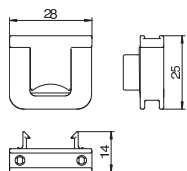


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
71GD7	Iron grey	2	11.000	6288611

PA Polyamide

Front locking accessory mounting box for standard switch ranges for the installation of two individual installation devices or a multiple power socket. With unfolding, and also removable, base for time-saving cable connection and with feed openings for cable diameters of up to 14 mm.

Strain relief for service outlet

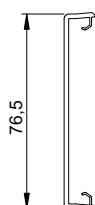


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
7ZE	50	0.700	6288790

PA Polyamide

Strain relief with locking clips, suitable for the accessory mounting boxes 7GD... and 71GD... .

Plastic trunking cover, smooth



Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-OTGRW	Pure white	2000	16	27.500	6278680
GK-OTGCW	Cream	2000	16	27.500	6278681
GK-OTGLGR	Light grey	2000	16	27.500	6278682
GK-OTGGR	Stone grey	2000	16	27.500	6278686

PVC Polyvinylchloride

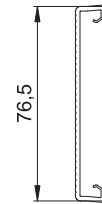
Smooth trunking cover, for closing device installation trunking with 76.5 mm system opening.

Plastic trunking cover, fluted

Type	Colour	Length mm	Pack. Weight		Item No.
			m	kg/100 m	
GK-OTKRW	Pure white	2000	16	27.000	6278780
GK-OTKCW	Cream	2000	16	27.000	6278781
GK-OTKLGR	Light grey	2000	16	27.000	6278782

PVC Polyvinylchloride

Fluted trunking cover, for closing device installation trunking with 76.5 mm system opening.

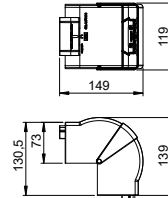


External corner cover, variable

Type	Colour	Length mm	Pack. Weight		Item No.
			pcs	kg/100 pcs.	
GK-AH70110RW	Pure white	130.5	1	15.000	6274210
GK-AH70110CW	Cream	130.5	1	15.000	6274211
GK-AH70110LGR	Light grey	130.5	1	15.000	6274212

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

External corner cover made of halogen-free PC/ABS for changing the direction of Rapid 80 device installation trunking of the GK, GKH, GS and GA systems. The fittings can be variably adjusted between 80° and 100° and can be used in symmetrical and asymmetrical trunking.

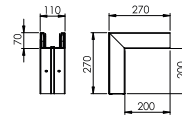


External corner

Type	Colour	Pack. Weight		Item No.
		pcs	kg/100 pcs.	
GK-A70110RW	Pure white	1	116.000	6274310
GK-A70110CW	Cream	1	116.000	6274311
GK-A70110LGR	Light grey	1	116.000	6274312
GK-A70110GR	Stone grey	1	116.000	6274316

PVC Polyvinylchloride

External corner for changing the direction of the GK device installation trunking.

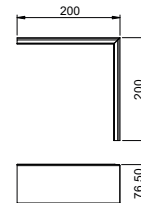


External corner cover, smooth

Type	Colour	Pack. Weight		Item No.
		pcs	kg/100 pcs.	
GK-OTGARW	Pure white	2	9.500	6274790
GK-OTGACW	Cream	2	9.500	6274791
GK-OTGALGR	Light grey	2	9.500	6274792
GK-OTGAGR	Stone grey	2	9.500	6274796

PVC Polyvinylchloride

PVC external corner cover, smooth surface.

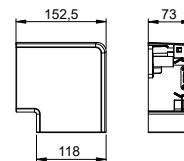


Flat angle cover

Type	Colour	Length mm	Pack. Weight		Item No.
			pcs	kg/100 pcs.	
GK-FH70110RW	Pure white	152.5	1	15.100	6274220
GK-FH70110CW	Cream	152.5	1	15.100	6274221
GK-FH70110LGR	Light grey	152.5	1	15.100	6274222

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

Flat angle cover fitting made of halogen-free PC/ABS for simple creation of a rising or falling 90° change of direction with device installation trunking of the series Rapid 80 GK, GKH, GS and GA. The flat angle cover fitting can be used for symmetrical and asymmetrical trunking types.

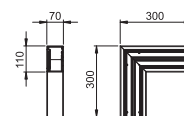


Flat angle

Type	Colour	Pack. Weight		Item No.
		pcs	kg/100 pcs.	
GK-F70110RW	Pure white	1	78.000	6274320
GK-F70110CW	Cream	1	78.000	6274321
GK-F70110LGR	Light grey	1	78.000	6274322
GK-F70110GR	Stone grey	1	78.000	6274326

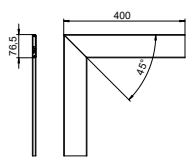
PVC Polyvinylchloride

Flat angle for changing the direction of the GK device installation trunking.



Trunking height 70 mm, trunking width 110 mm

Flat angle cover, smooth

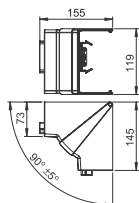


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-OTGFRW	Pure white	1	17.000	6274490
GK-OTGFCW	Cream	1	17.000	6274491
GK-OTGFLGR	Light grey	1	17.000	6274492
GK-OTGFGR	Stone grey	1	17.000	6274496

PVC Polyvinylchloride

Flat angle cover, smooth surface.

Internal corner cover, variable

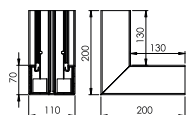


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-IH70110RW	Pure white	1	14.200	6274240
GK-IH70110CW	Cream	1	14.200	6274241
GK-IH70110LGR	Light grey	1	14.200	6274282

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

Internal corner cover made of halogen-free PC/ABS for changing the direction of Rapid 80 device installation trunking of the GK, GKH GS and GA systems. The fittings can be variably adjusted between 85° and 95° and can be used in symmetrical and asymmetrical trunking.

Internal corner

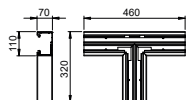


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-I70110RW	Pure white	1	100.000	6274340
GK-I70110CW	Cream	1	100.000	6274341
GK-I70110LGR	Light grey	1	100.000	6274342
GK-I70110GR	Stone grey	1	100.000	6274346

PVC Polyvinylchloride

Internal corner for changing the direction of the GK device installation trunking.

T-piece

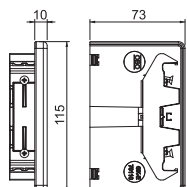


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-T70110RW	Pure white	1	100.000	6274360
GK-T70110CW	Cream	1	100.000	6274361
GK-T70110LGR	Light grey	1	100.000	6274362
GK-T70110GR	Stone grey	1	100.000	6274366

PVC Polyvinylchloride

T-piece for changing the direction of the GK device installation trunking.

End piece

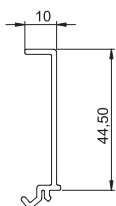


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-E70110RW	Pure white	1	5.009	6274370
GK-E70110CW	Cream	1	5.009	6274371
GK-E70110LGR	Light grey	1	5.009	6274372
GK-E70110GR	Stone grey	1	5.009	6274376

PVC Polyvinylchloride

End piece for closing the GK device installation trunking.

Partition



Type	Length mm	Pack.	Weight	Item No.
		m	kg/100 m	
GK-TW70	2000	40	17.400	6274900

PVC Polyvinylchloride

Partition for mounting in Rapid 80 GK, GA and Rapid IBIS device installation trunking or ISS service poles for installing cables of different voltage levels.

Duct clamp

Type	Surface	Length	Colour	Pack.	Weight	Item No.
	finish	mm		pcs	kg/100 pcs.	
KL80A	—	—	Light grey	20	0.685	6288640

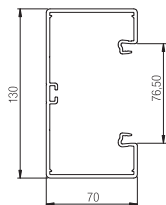
PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

Duct clamp for holding cables securely and for fastening the partition in Rapid 80 GK, GS and GA device installation trunking systems as well as in ISS service poles with a 76.5 mm system opening.



Trunking height 70 mm, trunking width 130 mm

Device installation trunking, type GK70130

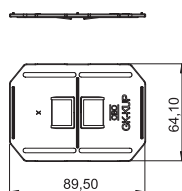


Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-70130RW	Pure white	2000	8	152.000	6274500
GK-70130CW	Cream	2000	8	152.000	6274501
GK-70130LGR	Light grey	2000	8	152.000	6274502
GK-70130GR	Stone grey	2000	8	152.000	6274506

PVC Polyvinylchloride

GK device installation trunking, made of lead-free PVC, suitable for installing directly on the wall or on wall panels. Fastening takes place using the perforation in the trunking. The GK device installation trunking possesses a C profile on the floor to accept a plastic partition. All the switch programmes with a support ring and support clamp design as well as Modul 45 installation devices can be installed in the accessory mounting boxes of series 71GD.... The system opening is 76.5 mm. On each trunking length, a coupling pair is pre-assembled on one side. The cover must be ordered separately.

Coupling

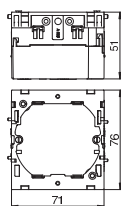


Type	Colour	Pack. PU	Weight kg/100 PUs	Item No.
GK-KUP	Light grey	1	2.140	6274650

ABS/ASA Acrylonitrile butadiene styrene

Coupling as trunking connector for tight connection of the trunking sections. A coupling pair is included and pre-mounted for each stock length.

Accessory mounting box, single

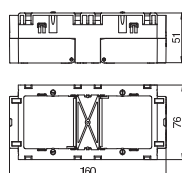


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
71GD6	Iron grey	5	5.600	6288610

PA Polyamide

Front locking accessory mounting box for switch systems, with folding, and also removable, base for time saving cable connection, with feed openings for cable diameters of up to 14 mm.

Accessory mounting box, double

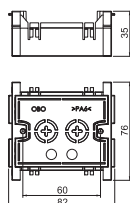


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
71GD7	Iron grey	2	11.000	6288611

PA Polyamide

Front locking accessory mounting box for standard switch ranges for the installation of two individual installation devices or a multiple power socket. With unfolding, and also removable, base for time-saving cable connection and with feed openings for cable diameters of up to 14 mm.

Accessory mounting box, British Standard, single

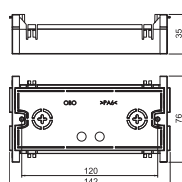


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
71GDBS1	—	10	3.300	6288585

PA Polyamide

Front-locking, single accessory mounting box for British Standard switch systems. Insertion opening for cable diameters of up to max. 17 mm. Can be used in all device installation trunking of the Rapid 80 series and ISS service poles with 76.5 mm system opening.

Accessory mounting box, British Standard, double



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
71GDBS2	—	10	5.300	6288586

PA Polyamide

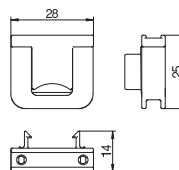
Front-locking, double accessory mounting box for British Standard switch systems. Insertion opening for cable diameters of up to max. 17 mm. Can be used in all device installation trunking of the Rapid 80 series and ISS service poles with 76.5 mm system opening.

Strain relief for service outlet

Type	Colour	Length mm	Pack. pcs	Weight kg/100 pcs	Item No.
7ZE			50	0.700	6288790

PA Polyamide

Strain relief with locking clips, suitable for the accessory mounting boxes 7GD... and 71GD...

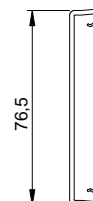


Plastic trunking cover, smooth

Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-OTGRW	Pure white	2000	16	27.500	6278680
GK-OTGCW	Cream	2000	16	27.500	6278681
GK-OTGLGR	Light grey	2000	16	27.500	6278682
GK-OTGGR	Stone grey	2000	16	27.500	6278686

PVC Polyvinylchloride

Smooth trunking cover, for closing device installation trunking with 76.5 mm system opening.

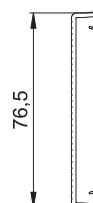


Plastic trunking cover, fluted

Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-OTKRW	Pure white	2000	16	27.000	6278780
GK-OTKCW	Cream	2000	16	27.000	6278781
GK-OTKLGR	Light grey	2000	16	27.000	6278782

PVC Polyvinylchloride

Fluted trunking cover, for closing device installation trunking with 76.5 mm system opening.

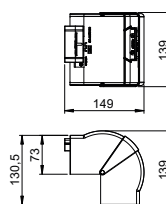


External corner cover, variable

Type	Colour	Length mm	Pack. pcs	Weight kg/100 pcs	Item No.
GK-AH70130RW	Pure white	130.5	1	18.535	6274410
GK-AH70130CW	Cream	130.5	1	16.100	6274411
GK-AH70130LGR	Light grey	130.5	1	16.100	6274412

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

External corner cover made of halogen-free PC/ABS for changing the direction of Rapid 80 device installation trunking of the GK, GKH, GS and GA systems. The fittings can be variably adjusted between 80° and 100° and can be used in symmetrical and asymmetrical trunking.

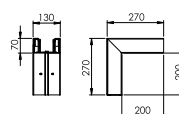


External corner

Type	Colour	Pack. pcs	Weight kg/100 pcs	Item No.
GK-A70130RW	Pure white	1	127.000	6274510
GK-A70130CW	Cream	1	127.000	6274511
GK-A70130LGR	Light grey	1	127.000	6274512
GK-A70130GR	Stone grey	1	127.000	6274516

PVC Polyvinylchloride

External corner for changing the direction of the GK device installation trunking.

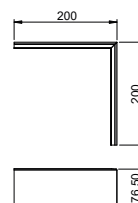


External corner cover, smooth

Type	Colour	Pack. pcs	Weight kg/100 pcs	Item No.
GK-OTGARW	Pure white	2	9.500	6274790
GK-OTGACW	Cream	2	9.500	6274791
GK-OTGALGR	Light grey	2	9.500	6274792
GK-OTGAGR	Stone grey	2	9.500	6274796

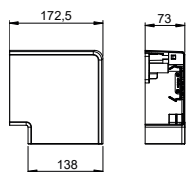
PVC Polyvinylchloride

PVC external corner cover, smooth surface.



Trunking height 70 mm, trunking width 130 mm

Flat angle cover

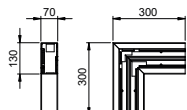


Type	Colour	Length mm	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-FH70130RW	Pure white	172.5	1	17.100	6274420
GK-FH70130CW	Cream	172.5	1	17.100	6274421
GK-FH70130LGR	Light grey	172.5	1	17.100	6274422

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

Flat angle cover fitting made of halogen-free PC/ABS for simple creation of a rising or falling 90° change of direction with device installation trunking of the series Rapid 80 GK, GKH, GS and GA. The flat angle cover fitting can be used for symmetrical and asymmetrical trunking types.

Flat angle

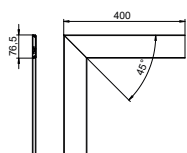


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-F70130RW	Pure white	1	83.000	6274520
GK-F70130CW	Cream	1	83.000	6274521
GK-F70130LGR	Light grey	1	83.000	6274522
GK-F70130GR	Stone grey	1	83.000	6274526

PVC Polyvinylchloride

Flat angle for changing the direction of the GK device installation trunking.

Flat angle cover, smooth

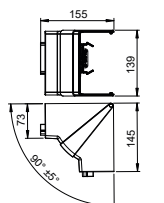


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-OTGFRW	Pure white	1	17.000	6274490
GK-OTGFCW	Cream	1	17.000	6274491
GK-OTGFLGR	Light grey	1	17.000	6274492
GK-OTGFGR	Stone grey	1	17.000	6274496

PVC Polyvinylchloride

Flat angle cover, smooth surface.

Internal corner cover, variable

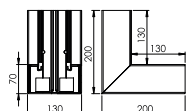


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-IH70130RW	Pure white	1	14.900	6274440
GK-IH70130CW	Cream	1	14.900	6274441
GK-IH70130LGR	Light grey	1	14.900	6274442

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

Internal corner cover made of halogen-free PC/ABS for changing the direction of Rapid 80 device installation trunking of the GK, GKH GS and GA systems. The fittings can be variably adjusted between 85° and 95° and can be used in symmetrical and asymmetrical trunking.

Internal corner

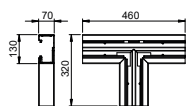


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-I70130RW	Pure white	1	110.000	6274540
GK-I70130CW	Cream	1	110.000	6274541
GK-I70130LGR	Light grey	1	110.000	6274542
GK-I70130GR	Stone grey	1	110.000	6274546

PVC Polyvinylchloride

Internal corner for changing the direction of the GK device installation trunking.

T-piece



Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-T70130RW	Pure white	1	108.000	6274560
GK-T70130CW	Cream	1	108.000	6274561
GK-T70130LGR	Light grey	1	108.000	6274562
GK-T70130GR	Stone grey	1	108.000	6274566

PVC Polyvinylchloride

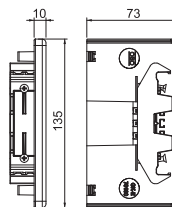
T-piece for changing the direction of the GK device installation trunking.

Type	Surface finish	Length mm	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
GK-E70130RW	—	—	Pure white	1	5.574	6274570
GK-E70130CW	—	—	Cream	1	5.621	6274571
GK-E70130LGR	—	—	Light grey	1	5.621	6274572
GK-E70130GR	—	—	Stone grey	1	5.621	6274576

PVC Polyvinylchloride

End piece for closing the GK device installation trunking.

End piece

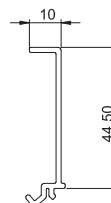


Type	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-TW70	2000	40	17.400	6274900

PVC Polyvinylchloride

Partition for mounting in Rapid 80 GK, GA and Rapid IBIS device installation trunking or ISS service poles for installing cables of different voltage levels.

Partition



Type	Surface finish	Length mm	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
KL80A	—	—	Light grey	20	0.685	6288640

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

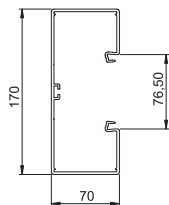
Duct clamp for holding cables securely and for fastening the partition in Rapid 80 GK, GS and GA device installation trunking systems as well as in ISS service poles with a 76.5 mm system opening.

Duct clamp



Trunking height 70 mm, trunking width 170 mm

Device installation trunking, type GK70170

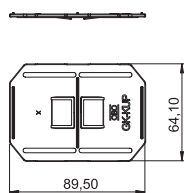


Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-70170RW	Pure white	2000	8	180.000	6274700
GK-70170CW	Cream	2000	8	180.000	6274701
GK-70170LGR	Light grey	2000	8	180.000	6274702
GK-70170GR	Stone grey	2000	8	180.000	6274706

PVC Polyvinylchloride

GK device installation trunking, made of lead-free PVC, suitable for installing directly on the wall or on wall panels. Fastening takes place using the perforation in the trunking. The GK device installation trunking possesses a C profile on the floor to accept a plastic partition. All the switch programmes with a support ring and support clamp design as well as Modul 45 installation devices can be installed in the accessory mounting boxes of series 71GD.... The system opening is 76.5 mm. On each trunking length, a coupling pair is pre-assembled on one side. The cover must be ordered separately.

Coupling

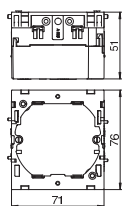


Type	Colour	Pack. PU	Weight kg/100 PUs	Item No.
GK-KUP	Light grey	1	2.140	6274650

ABS/ASA Acrylonitrile butadiene styrene

Coupling as trunking connector for tight connection of the trunking sections. A coupling pair is included and pre-mounted for each stock length.

Accessory mounting box, single

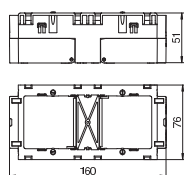


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
71GD6	Iron grey	5	5.600	6288610

PA Polyamide

Front locking accessory mounting box for switch systems, with folding, and also removable, base for time saving cable connection, with feed openings for cable diameters of up to 14 mm.

Accessory mounting box, double

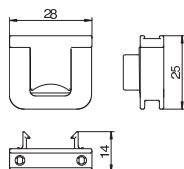


Type	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
71GD7	Iron grey	2	11.000	6288611

PA Polyamide

Front locking accessory mounting box for standard switch ranges for the installation of two individual installation devices or a multiple power socket. With unfolding, and also removable, base for time-saving cable connection and with feed openings for cable diameters of up to 14 mm.

Strain relief for service outlet

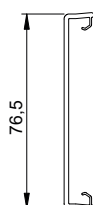


Type	Pack. pcs	Weight kg/100 pcs.	Item No.
7ZE	50	0.700	6288790

PA Polyamide

Strain relief with locking clips, suitable for the accessory mounting boxes 7GD... and 71GD... .

Plastic trunking cover, smooth



Type	Colour	Length mm	Pack. m	Weight kg/100 m	Item No.
GK-OTGRW	Pure white	2000	16	27.500	6278680
GK-OTGCW	Cream	2000	16	27.500	6278681
GK-OTGLGR	Light grey	2000	16	27.500	6278682
GK-OTGGR	Stone grey	2000	16	27.500	6278686

PVC Polyvinylchloride

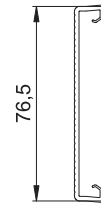
Smooth trunking cover, for closing device installation trunking with 76.5 mm system opening.

Plastic trunking cover, fluted

Type	Colour	Length mm	Pack. m	Weight		Item No.
				kg/100 m		
GK-OTKRW	Pure white	2000	16	27.000		6278780
GK-OTKCW	Cream	2000	16	27.000		6278781
GK-OTKLGR	Light grey	2000	16	27.000		6278782

PVC Polyvinylchloride

Fluted trunking cover, for closing device installation trunking with 76.5 mm system opening.

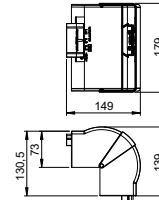


External corner cover, variable

Type	Colour	Length mm	Pack. pcs	Weight		Item No.
				kg/100 pcs		
GK-AH70170RW	Pure white	130.5	1	20.490		6274610
GK-AH70170CW	Cream	130.5	1	20.490		6274611
GK-AH70170LGR	Light grey	130.5	1	20.490		6274612

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

External corner cover made of halogen-free PC/ABS for changing the direction of Rapid 80 device installation trunking of the GK, GKH, GS and GA systems. The fittings can be variably adjusted between 80° and 100° and can be used in symmetrical and asymmetrical trunking.

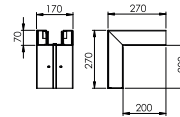


External corner

Type	Colour	Pack. pcs	Weight		Item No.
			kg/100 pcs		
GK-A70170RW	Pure white	1	149.000		6274710
GK-A70170CW	Cream	1	149.000		6274711
GK-A70170LGR	Light grey	1	149.000		6274712
GK-A70170GR	Stone grey	1	149.000		6274716

PVC Polyvinylchloride

External corner for changing the direction of the GK device installation trunking.

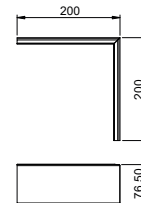


External corner cover, smooth

Type	Colour	Pack. pcs	Weight		Item No.
			kg/100 pcs		
GK-OTGARW	Pure white	2	9.500		6274790
GK-OTGACW	Cream	2	9.500		6274791
GK-OTGALGR	Light grey	2	9.500		6274792
GK-OTGAGR	Stone grey	2	9.500		6274796

PVC Polyvinylchloride

PVC external corner cover, smooth surface.

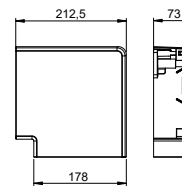


Flat angle cover

Type	Colour	Length mm	Pack. pcs	Weight		Item No.
				kg/100 pcs		
GK-FH70170RW	Pure white	212.5	1	19.131		6274620
GK-FH70170CW	Cream	212.5	1	19.131		6274621
GK-FH70170LGR	Light grey	212.5	1	19.131		6274622

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

Flat angle cover fitting made of halogen-free PC/ABS for simple creation of a rising or falling 90° change of direction with device installation trunking of the series Rapid 80 GK, GKH, GS and GA. The flat angle cover fitting can be used for symmetrical and asymmetrical trunking types.

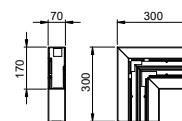


Flat angle

Type	Colour	Pack. pcs	Weight		Item No.
			kg/100 pcs		
GK-F70170RW	Pure white	1	91.000		6274720
GK-F70170CW	Cream	1	91.000		6274721
GK-F70170LGR	Light grey	1	91.000		6274722
GK-F70170GR	Stone grey	1	91.000		6274726

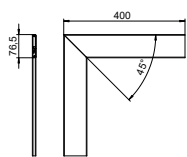
PVC Polyvinylchloride

Flat angle for changing the direction of the GK device installation trunking.



Trunking height 70 mm, trunking width 170 mm

Flat angle cover, smooth

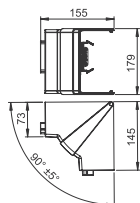


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-OTGFRW	Pure white	1	17.000	6274490
GK-OTGFCW	Cream	1	17.000	6274491
GK-OTGFLGR	Light grey	1	17.000	6274492
GK-OTGFGR	Stone grey	1	17.000	6274496

PVC Polyvinylchloride

Flat angle cover, smooth surface.

Internal corner cover, trunking height 70 mm

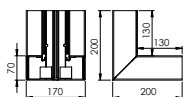


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-IH70170RW	Pure white	1	16.300	6274640
GK-IH70170CW	Cream	1	16.300	6274641
GK-IH70170LGR	Light grey	1	16.300	6274642

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

Internal corner cover made of halogen-free PC/ABS for changing the direction of Rapid 80 device installation trunking of the GK, GKH GS and GA systems. The fittings can be variably adjusted between 85° and 95° and can be used in symmetrical and asymmetrical trunking.

Internal corner

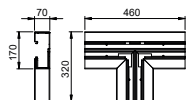


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-I70170RW	Pure white	1	130.000	6274740
GK-I70170CW	Cream	1	130.000	6274741
GK-I70170LGR	Light grey	1	130.000	6274742
GK-I70170GR	Stone grey	1	130.000	6274746

PVC Polyvinylchloride

Internal corner for changing the direction of the GK device installation trunking.

T-piece

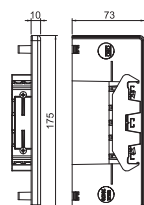


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-T70170RW	Pure white	1	120.000	6274760
GK-T70170CW	Cream	1	120.000	6274761
GK-T70170LGR	Light grey	1	120.000	6274762
GK-T70170GR	Stone grey	1	120.000	6274766

PVC Polyvinylchloride

T-piece for changing the direction of the GK device installation trunking.

End piece

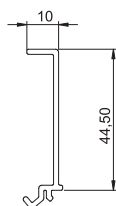


Type	Colour	Pack.	Weight	Item No.
		pcs	kg/100 pcs.	
GK-E70170RW	Pure white	1	6.840	6274770
GK-E70170CW	Cream	1	6.840	6274771
GK-E70170LGR	Light grey	1	6.840	6274772
GK-E70170GR	Stone grey	1	6.840	6274776

PVC Polyvinylchloride

End piece for closing the GK device installation trunking.

Partition



Type	Length mm	Pack.	Weight	Item No.
		m	kg/100 m	
GK-TW70	2000	40	17.400	6274900

PVC Polyvinylchloride

Partition for mounting in Rapid 80 GK, GA and Rapid IBIS device installation trunking or ISS service poles for installing cables of different voltage levels.

Duct clamp

Type	Surface	Length	Colour	Pack.	Weight	Item No.
	finish	mm		pcs	kg/100 pcs.	
KL80A	—	—	Light grey	20	0.685	6288640

PC/ABS Polycarbonate/acrylnitrile-butadiene-styrene

Duct clamp for holding cables securely and for fastening the partition in Rapid 80 GK, GS and GA device installation trunking systems as well as in ISS service poles with a 76.5 mm system opening.



Product Name: MAGNUM™ 3453 ABS Resin Natural

Revision Date: 19.04.2016

Print Date: 17 Jan 2018

TRINSEO UK LIMITED encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

Section 1. Identification of the substance/preparation and of the company/undertaking

1.1 Product identifiers

Product Name

MAGNUM™ 3453 ABS Resin Natural

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

A thermoplastic resin. For industrial conversion as a raw material for manufacture of articles or goods.

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION

TRINSEO UK LIMITED
THE GRANARIES NELSON STREET
KINGS LYNN
GREAT BRITAIN
England
PE30 5DY
UNITED KINGDOM

Customer Information Number:

+31 115 67 2601
SDSQuestion@trinseo.com

1.4 EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact:

Local Emergency Contact:

00 31 115 69 4982

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification - REGULATION (EC) No 1272/2008

This product is not classified as dangerous according to EC criteria.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

This product is not classified as dangerous according to EC criteria.

2.2 Label elements**Labelling - REGULATION (EC) No 1272/2008**

This product is not classified as dangerous according to EC criteria.

2.3 Other Hazards

No information available.

Section 3. Composition/information on ingredients
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3.2 Mixture

This product is a mixture.

CAS-No. / EC-No. / Index	REACH No.	Amount	Component	Classification: REGULATION (EC) No 1272/2008
CAS-No. 9003-56-9 EC-No. Polymer	—	>= 99.0 %	Acrylonitrile/butadiene/ styrene resin##	Not classified

CAS-No. / EC-No. / Index	Amount	Component	Classification: 67/548/EEC
CAS-No. 9003-56-9 EC-No. Polymer	>= 99.0 %	Acrylonitrile/butadiene/ styrene resin##	Not classified.

Voluntarily disclosed component(s).

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4. First-aid measures

4.1 Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin Contact: Wash skin with plenty of water. Seek first aid or medical attention as needed. If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water. DO NOT attempt to remove the material from skin. Removal could result in severe tissue damage. Seek medical attention immediately. Suitable emergency safety shower facility should be immediately available.

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

4.3 Indication of immediate medical attention and special treatment needed

If burn is present, treat as any thermal burn, after decontamination. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5. Fire Fighting Measures

5.1 Extinguishing Media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide. Combustion products may include trace amounts of: Styrene. Hydrogen cyanide.

Unusual Fire and Explosion Hazards: Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate. Dense smoke is produced when product burns.

5.3 Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. If material is molten, do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures: Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.2 Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

6.3 Methods and materials for containment and cleaning up: Contain spilled material if possible. Sweep up. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

Section 7. Handling and Storage

7.1 Precautions for safe handling

Handling

General Handling: No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. Avoid breathing process fumes. Use with adequate ventilation. When appropriate, unique handling information for containers can be found on the product label. Workers should be protected from the possibility of contact with molten resin. Do not get molten material in eyes, on skin or clothing. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Store in accordance with good manufacturing practices.

7.3 Specific end uses

See the technical data sheet on this product for further information.

Section 8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure Limits

None established

8.2 Exposure controls

Personal Protection

Eye/Face Protection: Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator.

Skin Protection: No precautions other than clean body-covering clothing should be needed.

Hand protection: Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves with insulation for thermal protection (EN 407), when needed. Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present. Use the following CE approved air-purifying respirator: When dust/mist are present use a/an Particulate filter, type P2. When combinations of vapors, acids, or dusts/mists are present use a/an Organic vapor cartridge with a particulate pre-filter, type AP2.

Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

Engineering Controls

Ventilation: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit

requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Physical State

Granules.

Color

White

Odor

Odorless

Odor Threshold

No test data available

pH

Not applicable

Melting Point

No test data available

Freezing Point

Not applicable

Boiling Point (760 mmHg)

Not applicable.

Flash Point - Closed Cup

Not applicable

Evaporation Rate (Butyl Acetate = 1)

No test data available

Flammability (solid, gas)

No

Flammable Limits In Air

Lower: Not applicable

Upper: Not applicable

Vapor Pressure

Not applicable

Vapor Density (air = 1)

Not applicable

Specific Gravity (H₂O = 1)

1.05 - 1.07 *Literature*

Solubility in water (by weight)

Negligible

Partition coefficient, n-octanol/water (log Pow)

No data available for this product.

Autoignition Temperature

No test data available

Decomposition Temperature

No test data available

Kinematic Viscosity

Not applicable

Explosive properties

No test data available

Oxidizing properties

No test data available

9.2 Other information

Molecular Weight

No test data available

Section 10. Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to Avoid: Avoid temperatures above 300 °C. Exposure to elevated temperatures can cause product to decompose.

10.5 Incompatible Materials: None known.

10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. At temperatures exceeding melt temperatures, polymer fragments can be released. Fumes can be irritating.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

Ingestion

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed.

Single dose oral LD50 has not been determined.

Typical for this family of materials. Estimated. LD50, rat > 5,000 mg/kg

Aspiration hazard

Based on physical properties, not likely to be an aspiration hazard.

Dermal

No adverse effects anticipated by skin absorption.

The dermal LD50 has not been determined.

Typical for this family of materials. Estimated. LD50, rabbit > 2,000 mg/kg

Inhalation

No adverse effects are anticipated from single exposure to dust. Vapors released during thermal processing may cause respiratory irritation.

The LC50 has not been determined.

Eye damage/eye irritation

Solid or dust may cause irritation or corneal injury due to mechanical action. Elevated temperatures may generate vapor levels sufficient to cause eye irritation. Effects may include discomfort and redness.

Skin corrosion/irritation

Prolonged contact is essentially nonirritating to skin. Mechanical injury only. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.

Sensitization

Skin

No relevant data found.

Respiratory

No relevant data found.

Repeated Dose Toxicity

Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

Chronic Toxicity and Carcinogenicity

No relevant data found.

Developmental Toxicity

No relevant data found.

Reproductive Toxicity

No relevant data found.

Genetic Toxicology

In vitro genetic toxicity studies were negative.

Section 12. Ecological Information

12.1 Toxicity

Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

12.2 Persistence and Degradability

This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

12.3 Bioaccumulative potential

Bioaccumulation: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

12.4 Mobility in soil

Mobility in soil: In the terrestrial environment, material is expected to remain in the soil., In the aquatic environment, material will sink and remain in the sediment.

12.5 Results of PBT and vPvB assessment

This mixture has not been assessed for persistence, bioaccumulation and toxicity (PBT).

12.6 Other adverse effects

No relevant data found.

Section 13. Disposal Considerations

13.1 Waste treatment methods

For uncontaminated material the disposal options include mechanical and chemical recycling or energy recovery. In some countries landfill is also allowed. For contaminated material the options remain the same, although additional evaluation is required. For all countries the disposal methods must be in compliance with national and provincial laws and any municipal or local by-laws. All disposal methods must be in compliance with the EU framework Directives 2008/98/EC and their subsequent adaptations, as implemented in National Laws and Regulations, as well as EU Directives dealing with priority waste streams. Transboundary shipment of wastes must be in compliance with Regulation (EC) No 1013/2006 and subsequent modifications.

Section 14. Transport Information

ADR/RID

14.1 UN number

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

Special Provisions: no data available

Hazard identification No: no data available

ADNR / ADN

14.1 UN number

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

no data available

IMDG

14.1 UN number

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

EMS Number: Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

ICAO/IATA

14.1 UN number

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

no data available

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Inventory of Existing Commercial Chemical Substances (EINECS)

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

15.2 Chemical Safety Assessment

Not applicable.

Section 16. Other Information

Hazard statement in the composition section**Revision**

Identification Number: 51389 / A577 / Issue Date 19.04.2016 / Version: 5.0

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

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		EH / TB	-43	2021-07-21

REACH Statement

To whom it may concern:

Together with our suppliers we ensure that all substances which are included in products delivered to you are registered.

We therefore hereby declare that all products supplied to you are in compliance with the current REACH legislation (1907/2006).

We further confirm that none of our products contain substances of contained in Annex XVII (SVHC list) or Annex XIV (authorisation list).

Additional we assure to undertake all needed measures to maintain a continuous supply.

If you have further questions please don't hesitate to contact us.

IKA
Innovative Kunststoffaufbereitung
GmbH & Co. KG

Dr. Thomas Böttger
QMB Management





Innovative Kunststoffaufbereitung GmbH & Co. KG

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Ihr Zeichen

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Datum
2021-07-21

RoHS – Declaration of Conformity (Directive 2011/65/EU) IKA 8202C9S and IKA 7134C8S

Hereby IKA confirms that to its knowledge the Onepacks produced and sold by IKA GmbH & Co. KG fulfill the requirements of the EU directive 2011/65/EU.

The products are compatible with the current RoHS requirements for the 10 substances according to the expanded list for RoHS 3:

Cadmium (0.01 %)

Lead (0.1 %)

Mercury (0.1 %)

Hexavalent chromium (0.1 %)

Polybrominated biphenyls (PBB) (0.1 %)

Polybrominated diphenyl ethers (PBDE) (0.1 %)

Bis(2-ethylhexyl) phthalate (DEHP) (0.1 %)

Butyl benzyl phthalate (BBP) (0.1 %)

Dibutyl phthalate (DBP) (0.1 %)

Diisobutyl phthalate (DIBP) (0.1 %)

Yours sincerely,

IKA
Innovative Kunststoffaufbereitung
GmbH & Co. KG

Dr. Thomas Böttger
QMB Management



MAGNUM™ 3453 ABS Resin

Overview

MAGNUM* 3453 ABS is a general purpose injection moulding resin suitable for a wide range of applications. The product combines a medium to high impact performance with good flowability.

The mass (continuous process) ABS technology ensures an ABS resin that combines excellent processability with a stable light base colour that is ideal for self-colouring.

Applications:

- Household appliances
- Telephones
- Electrical and computer equipment
- Consumer goods
- Toys

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183/B
Apparent (Bulk) Density	0.65 g/cm ³	0.65 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)			ISO 1133
220°C/10.0 kg	15 g/10 min	15 g/10 min	
230°C/3.8 kg	5.0 g/10 min	5.0 g/10 min	
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			ISO 527-2
0.126 in (3.20 mm), Injection Molded	331000 psi	2280 MPa	
Tensile Stress			ISO 527-2/50
Yield, 0.126 in (3.20 mm), Injection Molded	6530 psi	45.0 MPa	
Tensile Strain			ISO 527-2/50
Yield, 0.126 in (3.20 mm), Injection Molded	2.5 %	2.5 %	
Flexural Modulus ^{1,2}			ISO 178
0.126 in (3.20 mm), Injection Molded	334000 psi	2300 MPa	
Flexural Stress ^{1,2}			ISO 178
0.126 in (3.20 mm), Injection Molded	9860 psi	68.0 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C), Injection Molded	4.8 ft-lb/in ²	10 kJ/m ²	
73°F (23°C), Injection Molded	9.5 ft-lb/in ²	20 kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-22°F (-30°C), Injection Molded	4.3 ft-lb/in ²	9.0 kJ/m ²	
73°F (23°C), Injection Molded	9.0 ft-lb/in ²	19 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Annealed	212 °F	100 °C	
Vicat Softening Temperature	207 °F	97.0 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate ³ (0.0787 in (2.00 mm))	2.2 in/min	55 mm/min	ISO 3795
Flame Rating ³			UL 94
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Carbon Emission ³	25.0 µg/g	25.0 µg/g	VDA 277
Fogging ³	97 %	97 %	ISO 294-4

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ 0.079 in/min (2.0 mm/min)

² 3-points

³ This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.



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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Masterminds PE gery 70/6453M
Revision date : 21.04.2021
Print date : 21-04-2021

Version : 1.0.0

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Masterminds PE gery 70/6453M (0509LPE272)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

PC 0 - Other

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

QolorTech bv

Street : Aalbosweg 26

Postal code/city : 8171 MA Vaassen

Telephone : +31 (0)578-569666

Telefax : +31 (0)578-569669

1.4 Emergency telephone number

+31 (0)30 274 8888

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

None

2.2 Label elements

None

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

None

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest.

In case of skin contact

After contact with molten product, cool skin area rapidly with cold water. Do not peel solidified product off the skin. Call a physician in any case!

After eye contact

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In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Keep at rest. Call a physician immediately.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO₂) Extinguishing powder Water mist

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂)

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Remove all sources of ignition. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Take up carefully when dry. Avoid dust formation. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and storage



7.1 Precautions for safe handling

All work processes must always be designed so that the following is excluded: Generation/formation of dust

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Masterminds PE gery 70/6453M
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Version : 1.0.0

Protective measures

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. The product is: dust explosive

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a well-ventilated place. Restrict access to stockrooms.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection



Eye glasses with side protection

Skin protection

Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at neck and wrists through contact with the product are avoided.

Hand protection



Gloves with long cuffs

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values

General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Wash contaminated clothing prior to re-use. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety characteristics

Colour :			grey
Physical state :			granules
Odour :			odourless
Odour threshold :			not applicable
Melting point/freezing point :			120 - 140 °C
Initial boiling point and boiling range :	(1013 hPa)		not applicable
Decomposition temperature :	(1013 hPa)	>	300 °C
Flash point :			not applicable
Auto-ignition temperature :			not applicable
Lower explosion limit :			no data available
Upper explosion limit :			No data available

Safety Data Sheet

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Print date : 21-04-2021

Version : 1.0.0

Vapour pressure :	(50 °C)	not determined
Density :	(20 °C)	No data available
Water solubility :	(20 °C)	not determined
pH :		not relevant
log P O/W :		not determined
Viscosity :	(20 °C)	not determined
Relative vapour density :	(20 °C)	not applicable
Evaporation rate :		not applicable
Flammable solids, gas :	Not applicable.	
Oxidising solids :	Not relevant.	
Explosive properties :	Not relevant.	

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

No information available.

SECTION 12: Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Masterminds PE gery 70/6453M
Revision date : 21.04.2021
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

None

16.6 Training advice

Take care of good information, instruction and training for users.

16.7 Additional information

None

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Masterminds PE gery 70/6453M
Revision date : 21.04.2021
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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



16 January 2020

REACH Status of Tronox®, TiONA®, TiKON™ and CristalACTiV™

Registration

All volumes of Tronox®, TiONA®, TiKON™ and CristalACTiV™ titanium dioxide products placed on the European Economic Area (EEA) market by Tronox and its affiliated entities have been registered, according to the requirements of Regulation (EC) 1907/2006 (REACH) as amended, by an EEA-based Tronox affiliate as a manufacturer/importer or by an only representative appointed by a non-EEA based Tronox entity as manufacturer.

Non-Tronox importers into the EEA of Tronox products may have their own registration obligations under REACH. Customers requiring further information about such imports should contact us at ChemProdSteward@tronox.com.

Titanium dioxide is not classified as hazardous according to Regulation (EC) No, 1272/2008 as amended. Therefore, no restrictions for Downstream Use arise under REACH. In an effort to best support our customers, Tronox gathered information from Downstream User associations and individual customers relevant to the application of titanium dioxide and included this information in our REACH registration dossier.

Substances of Very High Concern (SVHC)

Under REACH, Article 57 the European Chemicals Agency (ECHA) , maintains a list of Substances of Very High Concern (SVHC) which include those that are classified as carcinogenic, mutagenic or toxic to reproduction category 1 or 2 according to Regulation (EC) No. 1272/2008 ('CLP'), Persistent, Bioaccumulative and Toxic (PBT), or very Persistent and very Bioaccumulative (vPvB) according to the criteria in Annex XIII of the REACH Regulation, and/or identified, on a case-by-case basis, as likely to cause serious effects to human health or the environment of an equivalent level of concern as those above.

To the best of our knowledge, Tronox®, TiONA®, TiKON™ and CristalACTiV™ titanium dioxide products do not contain substances listed on the candidate list of Substances of Very High Concern (SVHC)¹ as amended at levels above 0.1% w/w. Also, to the best of our current knowledge, these products do not contain any of the substances included in the Annex XIV ("Authorisation List")² or Annex XVII (Restricted Substances)³ of REACH.

Please contact Tronox product stewardship with questions regarding this statement, ChemProdSteward@tronox.com

1) <http://echa.europa.eu/candidate-list-table>

2) <https://echa.europa.eu/authorisation-list>

3) <https://echa.europa.eu/substances-restricted-under-reach>

The information set forth herein is furnished free of charge and based on technical data that Tronox believes to be reliable, to the best of knowledge. Nothing herein is to be taken as license to operate under or a recommendation to infringe any patents. This information and our technical advice - whether verbal, in writing or by way of trials - are given to the best of our knowledge but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale and Delivery. Tronox® and TiONA® are registered trademarks.

**Sicherheitsdatenblatt
gemäß 1907/2006/EG, Artikel 31**

Druckdatum: 12.11.2020

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überarbeitet am: 12.11.2020

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens**1.1 Produktidentifikator**

Handelsname: **KRONOS Titandioxid**
Produkt-Codes KRONOS 1002; KRONOS 2044; KRONOS 2073;
KRONOS 2078; KRONOS 2211; KRONOS 2220;
KRONOS 2222; KRONOS 2230; KRONOS 2233;
KRONOS 2350; KRONOS 2500; KRONOS 9000;
KRONOS 9100
CAS-Nummer: 13463-67-7
EG-Nummer: 236-675-5
REACH-Registrierungsnummer: 01-2119489379-17-xxxx

1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Identifizierte Verwendungen des Stoffs oder Gemischs Weißpigment für
Beschichtungsstoffe, Druckfarben, Chemiefasern, Kunststoffe, Papier, Glas-,
Email-, Keramikprodukte
Herstellung von Titanmetall

Verwendungen, von denen abgeraten wird Keine

1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Hersteller/Lieferant: KRONOS INTERNATIONAL, Inc.
Peschstraße 5
51373 Leverkusen, Deutschland
Tel.: +49 214 356-0

1.4 NOTRUFNUMMER: Tel.: +49 214 356 44 44

ABSCHNITT 2: Mögliche Gefahren**2.1 Einstufung des Stoffs oder Gemischs**

Einstufung gemäß Verordnung (EG) Nr. 1272/2008 Der Stoff ist gemäß CLP-Verordnung nicht eingestuft.

2.2 Kennzeichnungselemente

Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008 entfällt
Gefahrenpiktogramme entfällt
Signalwort entfällt
Gefahrenhinweise entfällt

2.3 Sonstige Gefahren Staubbelastung

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen**3.1 Chemische Charakterisierung: Stoffe**

CAS-Nr. Bezeichnung 13463-67-7 Titandioxid
EG-Nummer: 236-675-5

(Fortsetzung auf Seite 2)

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Handelsname: KRONOS Titandioxid

zusätzliche Hinweise

Normbezeichnung DIN EN ISO 591-1

(Fortsetzung von Seite 1)

ABSCHNITT 4: Erste-Hilfe-Maßnahmen**4.1 Beschreibung der Erste-Hilfe-Maßnahmen****Allgemeine Hinweise:**

Keine besonderen Maßnahmen erforderlich.

nach Einatmen:

Frischluftezufuhr, bei Beschwerden Arzt aufsuchen.

nach Hautkontakt:

Mit Wasser und Seife abwaschen und gut nachspülen.

nach Augenkontakt:Augen bei geöffnetem Lidspalt mehrere Minuten mit fließendem Wasser spülen.
Bei anhaltenden Beschwerden Arzt konsultieren.**nach Verschlucken:**

Keine besonderen Maßnahmen erforderlich.

4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Keine weiteren relevanten Informationen verfügbar.

4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung**5.1 Löschmittel****Geeignete Löschmittel:**Feuerlöschmaßnahmen auf die Umgebung abstimmen.
Produkt ist nicht brennbar.**5.2 Besondere vom Stoff oder****Gemisch ausgehende Gefahren:** Keine**5.3 Hinweise für die Brandbekämpfung****Besondere Schutzausrüstung:** Schutzmaßnahmen auf die Brandbedingungen abstimmen.**ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung****6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**

Nicht erforderlich.

6.2 Umweltschutzmaßnahmen:

Keine besonderen Maßnahmen erforderlich.

6.3 Methoden und Material für Rückhaltung und Reinigung:

Mechanisch aufnehmen.

(Fortsetzung auf Seite 3)

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Staubbildung vermeiden.

**6.4 Verweis auf andere
Abschnitte**Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.
Informationen zur Entsorgung siehe Abschnitt 13.**ABSCHNITT 7: Handhabung und Lagerung****Handhabung:****7.1 Schutzmaßnahmen zur
sicheren Handhabung
Hinweise zum Brand- und
Explosionsschutz:**

Bei Staubbildung Absaugung vorsehen.

Das Produkt ist nicht brennbar.

**7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten
Anforderung an Lagerräume
und Behälter:**

Keine besonderen Anforderungen.

Zusammenlagerungshinweise:

nicht erforderlich

**Weitere Angaben zu den
Lagerbedingungen:**

Trocken lagern.

**7.3 Spezifische
Endanwendungen**Außer den in Abschnitt 1.2 genannten Verwendungen sind keine weiteren
spezifischen Endanwendungen vorgesehen.**ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen****8.1 Zu überwachende Parameter****Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:****CAS: 13463-67-7 Titandioxid**AGW - TRGS 900 alveolengängige Fraktion* 1,25 mg/m³einatembare Fraktion 10 mg/m³(allgemeiner Staubgrenzwert, basierend auf einer mittleren Dichte von 2,5 g/cm³.)

*Bei Materialien höherer oder niedrigerer Dichte kann eine Umrechnung erfolgen.)

MAK (Österreich) Kurzzeitwert: 10 A mg/m³Langzeitwert: 5 A mg/m³

(Feinstaub)

MAK (Schweiz) Langzeitwert: 3 a mg/m³

SSc;

8.2 Begrenzung und Überwachung der Exposition**Persönliche Schutzausrüstung:****Allgemeine Schutz- und
Hygienemaßnahmen:**Die üblichen Vorsichtsmaßnahmen beim Umgang mit Chemikalien sind zu
beachten.Pigmente reizen die Haut nicht, können aber wie alle feinen Partikel
Feuchtigkeit und natürliche Fette von der Hautoberfläche aufnehmen. Bei
einer längeren Exposition sollten Schutzhandschuhe und Schutzkleidung
getragen werden.**(Fortsetzung auf Seite 4)**

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Handelsname: KRONOS Titandioxid**(Fortsetzung von Seite 3)**

Atemschutz:	Bei Überschreitung des Grenzwertes nach TRGS 900 Atemschutz in Übereinstimmung mit der nationalen Gesetzgebung verwenden. EN149: FFP2; EN143: P2
Handschutz:	Anforderungen gemäß EN 420 Schutzhandschuhe vor jeder Benutzung auf ihren ordnungsgemäßen Zustand prüfen. Vorbeugender Hautschutz durch Verwendung von Hautschutzmittel wird empfohlen.
Handschuhmaterial:	Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich. Wird das Produkt in einer Zubereitung aus mehreren Stoffen eingesetzt, ist die Beständigkeit von Handschuhmaterialien nicht vorausberechenbar und muß deshalb vor dem Einsatz überprüft werden.
Augenschutz:	Schutzbrille.
Körperschutz:	Arbeitsschutzkleidung.

ABSCHNITT 9: Physikalische und chemische Eigenschaften**9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften****Allgemeine Angaben****Aussehen:**

Form:	Pulver
Farbe:	weiß
Geruch:	geruchlos
Geruchsschwelle:	Nicht relevant

pH-Wert (100 g/l) bei 20°C: 7**Schmelzpunkt/Gefrierpunkt:** >1800°C
Siedebeginn und Siedebereich: Nicht relevant**Flammpunkt:** Nicht anwendbar**Entzündbarkeit (fest, gasförmig):** Der Stoff ist nicht entzündlich.**Zündtemperatur:** Nicht anwendbar**Explosive Eigenschaften:** Das Produkt ist nicht explosionsgefährlich.**Dichte:** 20°C Anatas 3,9 g/cm³
Rutil 4,2 g/cm³**Schüttdichte bei 20°C:** 500-900 kg/m³
Dampfdichte Nicht anwendbar
Verdampfungsgeschwindigkeit Nicht anwendbar**(Fortsetzung auf Seite 5)**

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Handelsname: KRONOS Titandioxid**(Fortsetzung von Seite 4)**

Löslichkeit in / Mischbarkeit mit Wasser: unlöslich

Verteilungskoeffizient: n-Octanol/Wasser: Nicht anwendbar

Viskosität dynamisch: Nicht anwendbar.

9.2 Sonstige Angaben Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 10: Stabilität und Reaktivität

10.1 Reaktivität Der Stoff ist stabil unter normalen Verwendungsbedingungen.

**10.2 Chemische Stabilität
Thermische Zersetzung / zu
vermeidende Bedingungen:** Keine Zersetzung bei bestimmungsgemäßer Verwendung.

**10.3 Möglichkeit gefährlicher
Reaktionen** Keine gefährlichen Reaktionen bekannt.

**10.4 Zu vermeidende
Bedingungen** Keine weiteren Angaben, siehe Abschnitt 7.

10.5 Unverträgliche Materialien Keine weiteren Angaben, siehe Abschnitt 7.

**10.6 Gefährliche
Zersetzungsprodukte** Keine gefährlichen Zersetzungsprodukte bekannt.

ABSCHNITT 11: Toxikologische Angaben**11.1 Angaben zu toxikologischen Wirkungen**

Akute Toxizität Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
Einstufungsrelevante LD/LC50-Werte:

CAS: 13463-67-7 Titandioxid

Oral LD50 > 5.000 mg/kg (Ratte) (OECD 425)
Dermal LD50 > 5.000 mg/kg (Kaninchen)
Inhalativ LC50/4h > 6,8 mg/l (Ratte)

Primäre Reizwirkung:

Ätz-/Reizwirkung auf die Haut OECD 404:
Keine Reizwirkung

**Schwere Augenschädigung/-
reizung**

OECD 405:
Keine Reizwirkung
Augenreizung durch mechanische Einwirkung (Staub) möglich

(Fortsetzung auf Seite 6)

**Sicherheitsdatenblatt
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Handelsname: KRONOS Titandioxid**(Fortsetzung von Seite 5)****Sensibilisierung der Atemwege/
Haut**OECD 406, OECD 429:
Keine sensibilisierende Wirkung**Subakute bis chronische Toxizität:****CAS: 13463-67-7 Titandioxid**

Oral NOAEL 3.500 mg/kg/d (Ratte) (90 d)

Dermal NOAEL (-)
Keine relevanten Daten verfügbarInhalativ NOAEC 10 mg/m³ (Ratte) (90 d)**Toxikokinetik, Stoffwechsel und
Verteilung**Eine Anreicherung von Titandioxid in Geweben nach oraler Verabreichung wurde nicht beobachtet.
Dermale Absorption kann vernachlässigt werden, da Titandioxid keine Durchdringung durch die menschliche Haut zeigt.**CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)****Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.**Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.**Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.**Spezifische Zielorgan-Toxizität
bei einmaliger Exposition** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.**Spezifische Zielorgan-Toxizität
bei wiederholter Exposition** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.**Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.**ABSCHNITT 12: Umweltbezogene Angaben****12.1 Toxizität****Toxizität gegenüber Fischen****CAS: 13463-67-7 Titandioxid**LC50 > 10.000 mg/l (Edelsteinkärpfling)
(semistatisch, OECD 203 (akute Fischtoxizität))
> 1.000 mg/l (Pimephales promelas)
(statisch; EPA-540/9-85-006 (Acute Toxicity Test for Freshwater Fish))**Toxizität gegenüber Daphnien und anderen wirbellosen Wassertieren****CAS: 13463-67-7 Titandioxid**LC50 > 10.000 mg/l (Acartia tonsa)
(ISO 14669 (1999); ISO 5667-16 (1998))
> 1.000 mg/l (Großer Wasserfloh)
(statisch, OECD 202 (Test auf akute Schwimmfähigkeit, Daphnien))**(Fortsetzung auf Seite 7)**

**Sicherheitsdatenblatt
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Handelsname: KRONOS Titandioxid**(Fortsetzung von Seite 6)****Toxizität gegenüber Algen und aquatischen Pflanzen****CAS: 13463-67-7 Titandioxid**EC50 > 100 mg/l (Pseudokirchneriella subcapitata)
(statisch, OECD 201 (Süßwasseralgen und Cyanobakterien: Wachstumsinhibitionstest))> 10.000 mg/l (Skeletonema costatum)
(ISO 10253)**Toxizität gegenüber Sedimentorganismen****CAS: 13463-67-7 Titandioxid**NOEC ≥ 100.000 mg/kg dw (Hyalella azteca)
(semi-static, ASTM 1706)**12.2 Persistenz und
Abbaubarkeit**

Nicht relevant für anorganische Stoffe.

12.3 Bioakkumulationspotenzial Reichert sich in Organismen nicht an.**12.4 Mobilität im Boden** Der Stoff ist im Boden nicht mobil.**12.5 Ergebnisse der PBT- und
vPvB-Beurteilung**Dieses Produkt ist ein anorganischer Stoff und erfüllt nicht die Kriterien für
PBT und vPvB gemäß Anhang XIII von REACH.**PBT:** Nicht anwendbar.**vPvB:** Nicht anwendbar.**12.6 Andere schädliche
Wirkungen**

Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 13: Hinweise zur Entsorgung**13.1 Verfahren der Abfallbehandlung****Europäischer Abfallkatalog:** Herkunftsorientierter Abfallschlüssel**Ungereinigte Verpackungen:****Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.**ABSCHNITT 14: Angaben zum Transport****14.1 UN-Nummer****ADR/RID/ADN, ADN, IMDG, IATA** entfällt**14.2 Ordnungsgemäße UN-Versandbezeichnung** entfällt**ADR/RID/ADN, ADN, IMDG, IATA****14.3 Transportgefahrenklassen****ADR/RID/ADN, ADN, IMDG, IATA****Klasse** entfällt**14.4 Verpackungsgruppe****ADR/RID/ADN, IMDG, IATA** entfällt**14.5 Umweltgefahren**

Kein umweltgefährlicher Stoff.

(Fortsetzung auf Seite 8)

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Handelsname: KRONOS Titandioxid**(Fortsetzung von Seite 7)****14.6 Besondere Vorsichtsmaßnahmen für den
Verwender**

Nicht anwendbar.

**14.7 Massengutbeförderung gemäß Anhang II des
MARPOL-Übereinkommens 73/78 und gemäß IBC-
Code**

Nicht relevant.

ABSCHNITT 15: Rechtsvorschriften**15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den
Stoff oder das Gemisch****Nationale Vorschriften:****Wassergefährdungsklasse:** nicht wassergefährdend.
Lagerklasse nach TRGS 510 Lagerklasse 13: Nicht brennbare Feststoffe**15.2 Stoffsicherheitsbeurteilung
Besonders besorgniserregende
Stoffe (SVHC) gemäß REACH,
Artikel 57**

Das Produkt ist nicht als SVHC-Stoff gelistet und es enthält keine besonders besorgniserregenden Substanzen.

Stoffsicherheitsbeurteilung: Eine Stoffsicherheitsbeurteilung wurde durchgeführt.**ABSCHNITT 16: Sonstige Angaben**

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

Karzinogenität: Im Februar 2006 kam das IARC zu dem Schluss, dass "für Titandioxid ungenügende Beweise für Karzinogenität am Menschen vorliegen". Basierend auf Inhalationsstudien an Ratten entschied das IARC, dass "ausreichender Beweis für Karzinogenität von Titandioxid an Versuchstieren vorliegt", daraus ergab sich die Gesamteinstufung der IARC "Titandioxid ist ein potenzielles Humankarzinogen (Gruppe 2b)".

Diese Entscheidung gründet sich auf die Regeln des IARC, die eine solche Einstufung fordern, wenn zwei oder mehr unabhängige Studien an einer Spezies, durchgeführt zu verschiedenen Zeiten oder in verschiedenen Laboratorien oder unter verschiedenen Umständen, Anzeichen für Tumorbildung zeigen.

Datenblatt ausstellender**Bereich:** Global Quality Management**Ansprechpartner:**Michaela Müller
Tel.Nr.: 0214 356-0
e-mail: MSDS@kronosww.com**Abkürzungen und Akronyme:**RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic**(Fortsetzung auf Seite 9)**



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(Fortsetzung von Seite 8)

vPvB: very Persistent and very Bioaccumulative

Quellen

REACH-Registration Dossier (Update 2019)

*** Daten gegenüber der
Vorversion geändert**

Angaben gemäß (EG) Nr. 2015/830

DE

SICHERHEITSDATENBLATT

gemäß Verordnung (EU) Nr. 830/2015 der Kommission



0540100 HYDROCARB 95T-OG

Version	Überarbeitet am:	SDB-Nummer:	Datum der letzten Ausgabe: 02.03.2017
1.3	16.05.2017	0540100	Datum der ersten Ausgabe: 22.08.2014

(CLP_DE)

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

1.1 Produktidentifikator

Handelsname	:	HYDROCARB 95T-OG
REACH Registrierungsnummer	:	Gemisch
Stoffname	:	Calciumcarbonat (GCC) beschichtetes feines Pulver

1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Verwendung des Stoffs/des Gemisches	:	Herstellung von Anstrichmitteln, Druckfarben und Kitt Herstellung von Farbstoffen und Pigmenten Herstellung von Klebstoffen Mischen Füllen Füllstoffe Trägerstoff Färbemittel, Pigmente
Empfohlene Einschränkungen der Anwendung	:	Nur für industrielle Zwecke. Weitere nicht genannte Branchen sind ausgeschlossen.

1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Firma	:	Omya GmbH Siegburger Str. 229c 50679 Koeln
Telefon	:	+4922137750
Telefax	:	+49221371864
E-Mailadresse der für SDB verantwortlichen Person	:	sdb.ch@omya.com
Verantwortliche/ausstellende Person	:	Omya International AG, Group Regulatory Affairs, 4665 Oftringen, Schweiz

1.4 Notrufnummer

Notrufnummer	:	+41613192837
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SICHERHEITSDATENBLATT

gemäß Verordnung (EU) Nr. 830/2015 der Kommission



0540100 HYDROCARB 95T-OG

Version 1.3 (CLP_DE) Überarbeitet am: 16.05.2017 SDB-Nummer: 0540100 Datum der letzten Ausgabe: 02.03.2017
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ABSCHNITT 2: Mögliche Gefahren

2.1 Einstufung des Stoffs oder Gemischs

Einstufung (VERORDNUNG (EG) Nr. 1272/2008)

Keine gefährliche Substanz oder Mischung.

2.2 Kennzeichnungselemente

Kennzeichnung (VERORDNUNG (EG) Nr. 1272/2008)

Keine gefährliche Substanz oder Mischung.

2.3 Sonstige Gefahren

Dieser Stoff/diese Mischung enthält keine Komponenten in Konzentrationen von 0,1 % oder höher, die entweder als persistent, bioakkumulierbar und toxisch (PBT) oder sehr persistent und sehr bioakkumulierbar (vPvB) eingestuft sind.

Keine Information verfügbar.

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

3.2 Gemische

Gefährliche Inhaltsstoffe

AGW-Stoff :			
Natürliches Calciumcarbonat (GCC).	1317-65-3 215-279-6 Ausgenommen gemäß Anhang V.7		>= 85 - < 100

Die Erklärung der Abkürzungen finden Sie unter Abschnitt 16.

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

4.1 Beschreibung der Erste-Hilfe-Maßnahmen

- Nach Einatmen : Nach Einatmen der Brandgase, Zersetzungsprodukte oder Staub im Unglücksfall an die frische Luft gehen.
Bei anhaltenden Beschwerden einen Arzt aufsuchen.
- Nach Hautkontakt : Beschmutzte Kleidung und Schuhe sofort ausziehen.
Mit Seife und viel Wasser abwaschen.
- Nach Augenkontakt : Augen vorsorglich mit Wasser ausspülen.
Kontaktlinsen entfernen.
Unverletztes Auge schützen.
Auge weit geöffnet halten beim Spülen.
- Nach Verschlucken : Mund mit Wasser ausspülen und reichlich Wasser nachtrinken.
Weder Milch noch alkoholische Getränke verabreichen.

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Nie einer ohnmächtigen Person etwas durch den Mund einflößen.

4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Keine bekannt.

4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Keine Daten verfügbar

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

5.1 Löschmittel

Geeignete Löschmittel : Löschmaßnahmen auf die Umgebung abstimmen.

5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren

Gefährliche
Verbrennungsprodukte : Keine gefährlichen Verbrennungsprodukte bekannt

5.3 Hinweise für die Brandbekämpfung

Besondere
Schutzausrüstung für die
Brandbekämpfung : Im Brandfall umgebungsluftunabhängiges Atemschutzgerät tragen.

Weitere Information : Übliche Maßnahmen bei Bränden mit Chemikalien.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Personenbezogene
Vorsichtsmaßnahmen : Staubbildung vermeiden.

6.2 Umweltschutzmaßnahmen

Umweltschutzmaßnahmen : Keine besonderen Umweltschutzmaßnahmen erforderlich.

6.3 Methoden und Material für Rückhaltung und Reinigung

Reinigungsverfahren : Zusammenkehren und aufschaukeln.
Zur Entsorgung in geeignete und verschlossene Behälter geben.

6.4 Verweis auf andere Abschnitte

Nicht anwendbar



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ABSCHNITT 7: Handhabung und Lagerung

7.1 Schutzmaßnahmen zur sicheren Handhabung

- Hinweise zum sicheren Umgang : Persönliche Schutzausrüstung siehe unter Abschnitt 8. Keine besonderen Handhabungshinweise erforderlich.
- Hinweise zum Brand- und Explosionsschutz : Staubbildung vermeiden. Bei Staubbildung für geeignete Entlüftung sorgen.
- Hygienemaßnahmen : Allgemein übliche Arbeitshygienemaßnahmen.

7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

- Anforderungen an Lagerräume und Behälter : Behälter dicht verschlossen an einem trockenen, gut belüfteten Ort aufbewahren.
- Zusammenlagerungshinweise : Nicht zusammen mit Säuren lagern.
- Lagerklasse (TRGS 510) : 13, Nicht brennbare Feststoffe
- Sonstige Angaben : Keine Zersetzung bei bestimmungsgemäßer Lagerung und Anwendung.

7.3 Spezifische Endanwendungen

Keine Daten verfügbar

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

8.1 Zu überwachende Parameter

Enthält keine Stoffe mit Arbeitsplatzgrenzwerten.

8.2 Begrenzung und Überwachung der Exposition

Persönliche Schutzausrüstung

- Augenschutz : Schutzbrille
- Handschutz
Anmerkungen : Bei längerem oder wiederholtem Kontakt Handschuhe benutzen.
- Haut- und Körperschutz : Schutzanzug
- Atemschutz : Bei Konzentrationen über den AGW-Werten ist ein entsprechendes, geprüftes Atemschutzgerät zu tragen. Halbmaske mit Partikelfilter P2 (DIN EN 143)

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ABSCHNITT 9: Physikalische und chemische Eigenschaften

9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Aussehen	:	Feines Pulver
Farbe	:	weiß
Geruch	:	charakteristisch
pH-Wert	:	8,5 - 9,5 (20 °C) Konzentration: 100 g/l Methode: DIN-ISO 787/9
Schmelzpunkt/Schmelzbereich	:	> 800 °C (1.013 hPa) Zersetzung: Zersetzt sich unter dem Schmelzpunkt.
Siedepunkt/Siedebereich	:	Zersetzung: Zersetzt sich unter dem Siedepunkt.
Flammpunkt	:	nicht entflammbar
Entzündbarkeit (fest, gasförmig)	:	Dieses Produkt ist nicht entzündlich.
Brennzahl	:	1
Untere Explosionsgrenze	:	Nicht anwendbar
Dampfdruck	:	Nicht anwendbar
Dichte	:	2,6 - 2,9 g/cm ³ (20 °C, 1.013 hPa) Methode: DIN-ISO 787/10
Löslichkeit(en)		
Wasserlöslichkeit	:	0,014 g/l (20 °C, 1.013 hPa) 0,018 g/l (75 °C, 1.013 hPa)
Verteilungskoeffizient: n-Octanol/Wasser	:	Nicht anwendbar
Zersetzungstemperatur	:	> 600 °C
Explosive Eigenschaften	:	Explosiv gem. Umgangsrecht EU: Nicht explosiv Explosiv gem. Transportrecht: Nicht explosiv

9.2 Sonstige Angaben

Keine Daten verfügbar

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ABSCHNITT 10: Stabilität und Reaktivität

10.1 Reaktivität

Stabil unter angegebenen Lagerungsbedingungen.

10.2 Chemische Stabilität

Keine Zersetzung bei bestimmungsgemäßer Lagerung und Anwendung.

10.3 Möglichkeit gefährlicher Reaktionen

Gefährliche Reaktionen : Stabil unter angegebenen Lagerungsbedingungen.
Keine Zersetzung bei bestimmungsgemäßer Verwendung.

Reagiert mit Säuren. Es bildet sich Kohlendioxid (CO₂).
Dieses verdrängt den Sauerstoff in der Luft in geschlossenen
Räumen (Erstickungsgefahr)

10.4 Zu vermeidende Bedingungen

Zu vermeidende Bedingungen : Keine Daten verfügbar

10.5 Unverträgliche Materialien

Keine Daten verfügbar

10.6 Gefährliche Zersetzungsprodukte

ABSCHNITT 11: Toxikologische Angaben

11.1 Angaben zu toxikologischen Wirkungen

Akute Toxizität

Produkt:

Akute orale Toxizität : LD50 Oral (Ratte): > 5.000 mg/kg

Inhaltsstoffe:

Natürliches Calciumcarbonat (GCC):

Akute orale Toxizität : LD50 Oral (Ratte): > 5.000 mg/kg

Ätz-/Reizwirkung auf die Haut

Produkt:

Nach den Einstufungskriterien der EU ist das Produkt nicht als hautreizend zu betrachten.

Schwere Augenschädigung/-reizung

Produkt:

Nach den Einstufungskriterien der EU ist das Produkt als nicht augenreizend zu betrachten.

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Sensibilisierung der Atemwege/Haut

Produkt:

Keine Daten verfügbar

Weitere Information

Produkt:

Keine Daten verfügbar

ABSCHNITT 12: Umweltbezogene Angaben

12.1 Toxizität

Produkt:

Toxizität gegenüber Fischen : LC50 (Oncorhynchus mykiss (Regenbogenforelle)): > 10.000 mg/l
Expositionszeit: 96 h

Toxizität gegenüber Daphnien und anderen wirbellosen Wassertieren : EC50 (Daphnia magna (Großer Wasserfloh)): > 1.000 mg/l
Expositionszeit: 48 h

Toxizität gegenüber Algen : NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): 75 mg/l
Expositionszeit: 72 h

EC50 (Desmodesmus subspicatus (Grünalge)): 289 mg/l
Expositionszeit: 72 h

Inhaltsstoffe:

Natürliches Calciumcarbonat (GCC):

Toxizität gegenüber Fischen : LC50 (Oncorhynchus mykiss (Regenbogenforelle)): > 10.000 mg/l
Expositionszeit: 96 h

Toxizität gegenüber Daphnien und anderen wirbellosen Wassertieren : EC50 (Daphnia magna (Großer Wasserfloh)): > 1.000 mg/l
Expositionszeit: 48 h

Toxizität gegenüber Algen : EC50 (Desmodesmus subspicatus (Grünalge)): > 200 mg/l
Expositionszeit: 72 h

12.2 Persistenz und Abbaubarkeit

Produkt:

Biologische Abbaubarkeit : Nicht anwendbar



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12.3 Bioakkumulationspotenzial

Inhaltsstoffe:

Natürliches Calciumcarbonat (GCC):

Verteilungskoeffizient: n- : Nicht anwendbar
Octanol/Wasser

12.4 Mobilität im Boden

Keine Daten verfügbar

12.5 Ergebnisse der PBT- und vPvB-Beurteilung

Produkt:

Bewertung : Dieser Stoff/diese Mischung enthält keine Komponenten in Konzentrationen von 0,1 % oder höher, die entweder als persistent, bioakkumulierbar und toxisch (PBT) oder sehr persistent und sehr bioakkumulierbar (vPvB) eingestuft sind.

Inhaltsstoffe:

Natürliches Calciumcarbonat (GCC):

Bewertung : Nicht eingestuftes PBT-Stoff
Nicht eingestuftes vPvB-Stoff

12.6 Andere schädliche Wirkungen

Produkt:

Sonstige ökologische Hinweise : In festem Zustand sind diese Mineralien ein Hauptbestandteil der Gesteine der Erdoberfläche. Sie sind in gelöstem Zustand ein natürlicher und unentbehrlicher Bestandteil der natürlichen Gewässer. Diese Mineralien sind nicht biologisch abbaubar. Negative Auswirkungen auf die Umwelt sollten darum ausgeschlossen werden können. Einschränkend kann darauf hingewiesen werden, dass konzentrierte Aufschlammungen dieser Mineralien in natürlichen Gewässern einen nachteiligen Einfluss auf Wasserorganismen haben können (Störung der Mikroflora und -fauna im Sediment und dadurch schädliche Einflüsse auf höhere Wasserorganismen).

ABSCHNITT 13: Hinweise zur Entsorgung

13.1 Verfahren der Abfallbehandlung

Produkt : Restmengen und nicht wieder verwertbare Lösungen einem anerkannten Entsorgungsunternehmen zuführen.

Verunreinigte Verpackungen : Reste entleeren.

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Leere Behälter einer anerkannten Abfallentsorgungsanlage
zuführen zwecks Wiedergewinnung oder Entsorgung.

ABSCHNITT 14: Angaben zum Transport

14.1 UN-Nummer

Nicht als Gefahrgut eingestuft

14.2 Ordnungsgemäße UN-Versandbezeichnung

Nicht als Gefahrgut eingestuft

14.3 Transportgefahrenklassen

Nicht als Gefahrgut eingestuft

14.4 Verpackungsgruppe

Nicht als Gefahrgut eingestuft

14.5 Umweltgefahren

Nicht als Gefahrgut eingestuft

14.6 Besondere Vorsichtsmaßnahmen für den Verwender

Anmerkungen : Kein Gefahrgut im Sinne der Transportvorschriften.

14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code

Auf Produkt im Lieferzustand nicht zutreffend.

ABSCHNITT 15: Rechtsvorschriften

15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

Verordnung (EG) Nr. 649/2012 des Europäischen Parlaments und des Rates über die Aus- und Einfuhr gefährlicher Chemikalien : Nicht anwendbar

REACH - Liste der für eine Zulassung in Frage kommenden besonders besorgniserregenden Stoffe (Artikel 59). : Nicht anwendbar

Verordnung (EG) Nr. 1005/2009 über Stoffe, die zum Abbau der Ozonschicht führen : Nicht anwendbar

Verordnung (EG) Nr. 850/2004 über persistente organische Schadstoffe : Nicht anwendbar

Seveso II - Richtlinie 2003/105/EG des Europäischen Parlaments und des Rates zur Änderung der Richtlinie 96/82/EG des Rates zur Beherrschung der Gefahren bei schweren Unfällen mit gefährlichen Stoffen

Nicht anwendbar

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Seveso III: Richtlinie 2012/18/EU des Europäischen Parlaments und des Rates zur Beherrschung der Gefahren schwerer Unfälle mit gefährlichen Stoffen.

Nicht anwendbar

Wassergefährdungsklasse : nwg nicht wassergefährdend
Einstufung laut VwVwS, Anhang 4.

TA Luft : Gesamtstaub:
Nicht anwendbar
Staubförmige anorganische Stoffe:
Nicht anwendbar
Dampf- oder gasförmige anorganische Stoffe:
Nicht anwendbar
Organische Stoffe:
Nicht anwendbar
Krebserzeugende Stoffe:
Nicht anwendbar
Erbgutverändernd:
Nicht anwendbar
Reproduktionstoxisch:
Nicht anwendbar

15.2 Stoffsicherheitsbeurteilung

Stoffsicherheitsbeurteilung ist nicht erforderlich

ABSCHNITT 16: Sonstige Angaben

Volltext anderer Abkürzungen

ADN - Europäisches Übereinkommens über die internationale Beförderung gefährlicher Güter auf Binnenwasserstrassen; ADR - Europäisches Übereinkommens über die internationale Beförderung gefährlicher Güter auf der Straße; AICS - Australisches Verzeichnis chemischer Substanzen; ASTM - Amerikanische Gesellschaft für Werkstoffprüfung; bw - Körpergewicht; CLP - Verordnung über die Einstufung, Kennzeichnung und Verpackung von Stoffen, Verordnung (EG) Nr 1272/2008; CMR - Karzinogener, mutagener oder reproduktiver Giftstoff; DIN - Norm des Deutschen Instituts für Normung; DSL - Liste heimischer Substanzen (Kanada); ECHA - Europäische Chemikalienbehörde; EC-Number - Nummer der Europäischen Gemeinschaft; ECx - Konzentration verbunden mit x % Reaktion; ELx - Beladungsrate verbunden mit x % Reaktion; EmS - Notfallplan; ENCS - Vorhandene und neue chemische Substanzen (Japan); ErCx - Konzentration verbunden mit x % Wachstumsgeschwindigkeit; GHS - Global harmonisiertes System; GLP - Gute Laborpraxis; IARC - Internationale Krebsforschungsagentur; IATA - Internationale Luftverkehrs-Vereinigung; IBC - Internationaler Code für den Bau und die Ausrüstung von Schiffen zur Beförderung gefährlicher Chemikalien als Massengut; IC50 - Halbmaximale Hemmstoffkonzentration; ICAO - Internationale Zivilluftfahrt-Organisation; IECSC - Verzeichnis der in China vorhandenen chemischen Substanzen; IMDG - Code – Internationaler Code für die Beförderung gefährlicher Güter mit Seeschiffen; IMO - Internationale Seeschiffahrtsorganisation; ISHL - Gesetz- über Sicherheit und Gesundheitsschutz am Arbeitsplatz (Japan); ISO - Internationale Organisation für Normung; KECl - Verzeichnis der in Korea vorhandenen Chemikalien; LC50 - Lethale Konzentration für 50 % einer Versuchspopulation; LD50 - Lethale Dosis für 50 % einer Versuchspopulation (mittlere lethale Dosis); MARPOL - Internationales Übereinkommen zur Verhütung der Meeresverschmutzung durch Schiffe; n.o.s. - nicht anderweitig genannt; NO(A)EC - Konzentration, bei der keine

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(schädliche) Wirkung erkennbar ist; NO(A)EL - Dosis, bei der keine (schädliche) Wirkung erkennbar ist; NOELR - Keine erkennbare Effektladung; NZIoC - Neuseeländisches Chemikalienverzeichnis; OECD - Organisation für wirtschaftliche Zusammenarbeit und Entwicklung; OPPTS - Büro für chemische Sicherheit und Verschmutzungsverhütung (OSCPP); PBT - Persistente, bioakkumulierbare und toxische Substanzen; PICCS - Verzeichnis der auf den Philippinen vorhandenen Chemikalien und chemischen Substanzen; (Q)SAR - (Quantitative) Struktur-Wirkungsbeziehung; REACH - Verordnung (EG) Nr. 1907/2006 des Europäischen Parlaments und des Rats bezüglich der Registrierung, Bewertung, Genehmigung und Restriktion von Chemikalien; RID - Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr; SADT - Selbstbeschleunigende Zersetzungstemperatur; SDS - Sicherheitsdatenblatt; TCSI - Verzeichnis der in Taiwan vorhandenen chemischen Substanzen; TRGS - Technischen Regeln für Gefahrstoffe; TSCA - Gesetz zur Kontrolle giftiger Stoffe (Vereinigte Staaten); UN - Vereinte Nationen; vPvB - Sehr persistent und sehr bioakkumulierbar

Weitere Information

Sonstige Angaben : Dieses Sicherheitsdatenblatt enthält nur sicherheitsrelevante Angaben und ersetzt keine Produktinformation oder Produktspezifikation.

Quellen der wichtigsten Daten, die zur Erstellung des Datenblatts verwendet wurden : Angaben stammen aus Nachschlagewerken und der Literatur.

Die Angaben in diesem Sicherheitsdatenblatt entsprechen nach bestem Wissen unseren Erkenntnissen zum Zeitpunkt der Überarbeitung. Die Informationen sollen Ihnen Anhaltspunkte für den sicheren Umgang mit dem in diesem Sicherheitsdatenblatt genannten Produkt bei Lagerung, Verarbeitung, Transport und Entsorgung geben. Die Angaben sind nicht übertragbar auf andere Produkte. Soweit das in diesem Sicherheitsdatenblatt genannte Produkt mit anderen Materialien vermengt, vermischt oder verarbeitet wird oder einer Bearbeitung unterzogen wird, können die Angaben in diesem Sicherheitsdatenblatt, soweit sich hieraus nicht ausdrücklich etwas anderes ergibt, nicht auf das so gefertigte neue Material übertragen werden.

ABSCHNITT 1: BEZEICHNUNG DES STOFFS BZW. DES GEMISCHS UND DES UNTERNEHMENS**1.1. Produktidentifikator**

Produktbezeichnung	Polyvinylchloride produced by suspension polymerization (S-PVC)
Chemische Bezeichnung	Polyvinylchlorid
CAS-Nr	9002-86-2
EG-Nr	618-338-8
REACH-Registrierungsnummer	Freigestellt (Polymer)

1.2. Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Empfohlene Verwendung	Rohstoff für: Kunststoffe
Verwendungen, von denen abgeraten wird	Es liegen keine Informationen vor.

1.3. Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Shin-Etsu PVC B.V.
Noorderweg 68
P.O. Box 136
1200 AC Hilversum
The Netherlands
Tel: +31 (0)35 6898010
Fax: +31 (0)35 6850989
PVCOrder@shinetsu.nl

1.4. Notrufnummer

Giftnotruf Berlin
+49 30 19 240

ABSCHNITT 2: MÖGLICHE GEFAHREN**2.1. Einstufung des Stoffs oder Gemischs**

Einstufung (1272/2008/EG)
Nicht eingestuft.

2.2. Kennzeichnungselemente

Nicht zutreffend.

2.3 Sonstige Gefahren

Keine bekannt.

ABSCHNITT 3: ZUSAMMENSETZUNG/ANGABEN ZU BESTANDTEILEN

3.1 Stoffe

Chemische Bezeichnung	EG-Nr	CAS-Nr	Gewichtsprozent	Einstufung (1272/2008/EG)	REACH-Registrierungsnummer
Polyvinylchlorid	618-338-8	9002-86-2	>99,5	-	Ausgenommen

ABSCHNITT 4: ERSTE-HILFE-MASSNAHMEN

4.1. Beschreibung der Erste-Hilfe-Maßnahmen

Allgemeine Empfehlung	Wenn die Symptome anhalten oder falls irgendein Zweifel besteht, ärztlichen Rat einholen
Augenkontakt	Sofort gründlich mit viel Wasser mindestens 15 Minuten lang ausspülen, auch unter den Augenlidern. Bei anhaltender Reizung sofort ärztliche Hilfe hinzuziehen.
Hautkontakt	Mit Wasser und Seife abwaschen. Kontaminierte Kleidung und Schuhe ausziehen. Verbrennungsgefahr (bei heißem Produkt). Bei Verbrennungen den betroffenen Bereich sofort so lange wie möglich mit kaltem Wasser kühlen. Bei Auftreten von Symptomen sofort medizinische Hilfe aufsuchen.
Verschlucken	Mund mit Wasser ausspülen und reichlich Wasser nachtrinken. Bei Auftreten von Symptomen sofort medizinische Hilfe aufsuchen.
Einatmen	An die frische Luft gehen. Bei Atembeschwerden Sauerstoff verabreichen. Bei Auftreten von Symptomen sofort medizinische Hilfe aufsuchen.
Schutz der Ersthelfer	Persönliche Schutzausrüstung verwenden. Kontakt mit Haut, Augen und Kleidung vermeiden.

4.2. Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Wichtigste Symptome	Einatmen hoher Staubkonzentrationen kann zu einer Reizung der Atemwege führen. Kontakt der Augen mit Staub kann zu mechanischer Reizung führen.
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4.3. Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Hinweise an den Arzt	Symptomatische Behandlung.
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ABSCHNITT 5: MASSNAHMEN ZUR BRANDBEKÄMPFUNG

5.1. Löschmittel

Geeignete Löschmittel	Schaum, Sprühwasser, Löschpulver, Kohlendioxid (CO ₂).
Ungeeignete Löschmittel	Keine bekannt.

5.2. Besondere vom Stoff oder Gemisch ausgehende Gefahren

Spezielle Gefahren	Thermische Zersetzung kann zur Freisetzung reizender Gase und Dämpfe führen: Kohlenstoffoxide, Chlorwasserstoffgas.
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5.3. Hinweise für die Brandbekämpfung

Besondere Schutzausrüstung bei der Brandbekämpfung	Umgebungsluftunabhängiges Atemschutzgerät und Schutzkleidung tragen. Staubbildung vermeiden. Im Brandfall können gefährliche Zersetzungsprodukte entstehen: Chlorwasserstoffgas.
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ABSCHNITT 6: MASSNAHMEN BEI UNBEABSICHTIGTER FREISETZUNG

6.1. Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Ausreichende Belüftung sicherstellen. Staubbildung vermeiden. Staub nicht einatmen. Alle Zündquellen entfernen: Hitze, Funken und Flammen. Nicht rauchen. Persönliche Schutzausrüstung siehe unter Abschnitt 8.

6.2. Umweltschutzmaßnahmen

Darf nicht in die Umwelt freigesetzt werden. Das Eindringen des Materials in die Kanalisation oder in Wasserläufe möglichst verhindern, Eindringen in den Untergrund vermeiden.

6.3 Methoden und Material für Rückhaltung und Reinigung

Staubbildung vermeiden. Aufwischen und zur Entsorgung in geeignete Behälter überführen.

6.4. Verweis auf andere Abschnitte

Siehe Abschnitte 8 und 13.

ABSCHNITT 7: HANDHABUNG UND LAGERUNG

7.1 Schutzmaßnahmen zur sicheren Handhabung

Ausreichende Belüftung sicherstellen. Bei unzureichender Belüftung Atemschutzgerät anlegen. Staubbildung vermeiden. Staub nicht einatmen. Bei Gebrauch nicht essen, trinken oder rauchen. Alle Zündquellen entfernen: Hitze, Funken und Flammen. Alle Werkzeuge zur Handhabung des Produkts müssen geerdet sein.

7.2. Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Gut verschlossen halten und an einem trockenen und kühlen Ort lagern. Bei Temperaturen unter 40 °C aufbewahren.

7.3. Spezifische Endanwendungen

Expositionsszenario Nicht verfügbar.

Sonstige Angaben Nicht verfügbar.

ABSCHNITT 8: BEGRENZUNG UND ÜBERWACHUNG DER EXPOSITION/PERSÖNLICHE SCHUTZAUSRÜSTUNG

8.1. Zu überwachende Parameter

Expositionsgrenzen Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten.

Chemische Bezeichnung	Europäische Union	Großbritannien	Frankreich	Spanien	Deutschland
Polyvinylchlorid		TWA: 10 mg/m ³ (inh) TWA: 4 mg/m ³ (resp)			TWA: 0.3 mg/m ³ (resp) STEL: 2.4 mg/m ³ (resp)

Chemische Bezeichnung	Italien	Portugal	Niederlande	Dänemark	Polen
Polyvinylchlorid		TWA: 10 mg/m ³ (inh) TWA 3 mg/m ³ (resp)			

Chemische Bezeichnung	Belgien	Schweden	Ungarn	Finnland	Tschechische Republik
Polyvinylchlorid	TWA: 10 mg/m ³	TWA: 1 mg/m ³		TWA: 1 mg/m ³ (resp)	TWA: 5.0 mg/m ³

Empfohlene Überwachungsverfahren Es liegen keine Informationen vor.

Abgeleitete Expositionshöhe ohne Beeinträchtigung (Derived No Effect Level) Es liegen keine Informationen vor.

Abgeschätzte Nicht-Effekt-Konzentration (PNEC, predicted no effect concentration) Es liegen keine Informationen vor.

8.2. Begrenzung und Überwachung der Exposition

Geeignete technische Steuerungseinrichtungen Für angemessene Belüftung sorgen, vor allem in geschlossenen Räumen.

Individuelle Schutzmaßnahmen, zum Beispiel persönliche Schutzausrüstung

Augenschutz	Dicht schließende Schutzbrille.
Handschutz	Es ist keine besondere Schutzausrüstung erforderlich.
Haut- und Körperschutz	Es ist keine besondere Schutzausrüstung erforderlich.
Atemschutz	Bei unzureichender Belüftung Atemschutzgerät anlegen.

Hygienemaßnahmen Mit einer guten Arbeitshygiene und Sicherheitstechnik handhaben.

Begrenzung und Überwachung der Umweltexposition Das Eindringen des Produkts in die Kanalisation, in Wasserläufe oder in den Erdboden soll verhindert werden.

ABSCHNITT 9: PHYSIKALISCHE UND CHEMISCHE EIGENSCHAFTEN

9.1. Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Aggregatzustand @20°C	Fest
Aussehen	Pulver
Farbe	Weiß
Geruch	Geruchlos
pH-Wert	Nicht zutreffend
Schmelz-/Gefrierpunkt	Nicht zutreffend
Siedepunkt/Siedebereich	Zersetzt sich
Flammpunkt	Nicht zutreffend
Verdampfungsgeschwindigkeit	Nicht zutreffend
Entzündbarkeit (fest, gasförmig)	Es liegen keine Informationen vor
Entzündlichkeitsgrenzwert in der Luft	Es liegen keine Informationen vor
Dampfdruck	Nicht zutreffend
Dampfdichte	Nicht zutreffend
Relative Dichte	+/- 1.4
Löslichkeit	
Wasserlöslichkeit	Unlöslich in Wasser
Löslichkeit in anderen Lösungsmitteln	Tetrahydrofuran, Cyclohexanon
Verteilungskoeffizient: n-Octanol/Wasser	Nicht zutreffend
Selbstentzündungstemperatur	> 500 °C
Zersetzungstemperatur	Es liegen keine Informationen vor
Viskosität, dynamisch	Nicht zutreffend
Explosive Eigenschaften	In Luft verteilter Feinstaub kann sich entzünden. Die minimale Entzündungstemperatur von feinem Staub in Luft beträgt > 1000 mJ (gemessen ohne Induktion)
Brandfördernde Eigenschaften	Es liegen keine Informationen vor

9.2 Sonstige Angaben

Schüttdichte	400 - 650 kg/m ³
Erweichungspunkt	+/- 80 °C
Glimmtemperatur	Glimmtemperatur einer Produktschicht von 5 mm: > 400°C

ABSCHNITT 10: STABILITÄT UND REAKTIVITÄT

10.1. Reaktivität

Stabil bei den empfohlenen Lagerungsbedingungen.

10.2. Chemische Stabilität

Stabil bis 60 °C.

10.3 Möglichkeit gefährlicher Reaktionen

Gefährliche Polymerisation tritt nicht auf.

10.4. Zu vermeidende Bedingungen

Von offenen Flammen, heißen Oberflächen und Zündquellen fernhalten. Staubentwicklung. Vor Feuchtigkeit schützen.

10.5. Unverträgliche Materialien

Keine besonderen

10.6. Gefährliche Zersetzungsprodukte

Chlorwasserstoffgas, Kohlenmonoxid (CO).

ABSCHNITT 11: TOXIKOLOGISCHE ANGABEN

11.1. Angaben zu toxikologischen Wirkungen

Akute Toxizität	
Verschlucken	Keine bekannten Auswirkungen.
Hautkontakt	Keine bekannten Auswirkungen.
Einatmen	Keine bekannten Auswirkungen.
Ätz-/Reizwirkung auf die Haut	Keine bekannten Auswirkungen.
Schwere Augenschädigung/-reizung	Keine bekannten Auswirkungen. Kontakt der Augen mit Staub kann zu mechanischer Reizung führen.
Sensibilisierung der Atemwege/Haut	Keine bekannten Auswirkungen.
Keimzellmutagenität	Nicht als Verursacher von genetischen Erbschäden bekannt.
Karzinogenität	Keine bekannten Auswirkungen.
Reproduktionstoxizität	Geburtsdefekte oder negative Effekte auf einen sich entwickelnden Fötus sind nicht bekannt. Adverse Effekte auf reproduktive Funktionen und Organe sind nicht bekannt.
Spezifische Zielorgan-Toxizität bei einmaliger Exposition	Keine bekannten Auswirkungen. Kann zu einer Reizung der Augen und der Atemwege führen.
Spezifische Zielorgan-Toxizität bei wiederholter Exposition	Keine bekannten Auswirkungen.
Aspirationsgefahr	Keine bekannten Auswirkungen.

ABSCHNITT 12: UMWELTBEZOGENE ANGABEN

12.1. Toxizität

Dieses Produkt ist nicht bekannt als umweltgefährlich.

12.2. Persistenz und Abbaubarkeit

Nicht leicht biologisch abbaubar.

12.3. Bioakkumulationspotenzial

Bioakkumulation ist unwahrscheinlich.

12.4. Mobilität im Boden

Es liegen keine Informationen vor.

12.5. Ergebnisse der PBT- und vPvB-Beurteilung

Es liegen keine Informationen vor.

12.6. Andere schädliche Wirkungen

Es liegen keine Informationen vor.

ABSCHNITT 13: HINWEISE ZUR ENTSORGUNG

13.1. Verfahren der Abfallbehandlung

**Abfälle von Restmengen /
ungebrauchten Produkten**

Im Rahmen der jeweils bestehenden Möglichkeiten hat Recycling grundsätzlich Vorrang vor der Entsorgung. Die Entsorgung muss gemäß regionalen Bestimmungen erfolgen.

Kontaminierte Verpackung

Leere Behälter sollten an einen zugelassenen Abfallumschlagplatz zum Recycling oder der Entsorgung überführt werden.

ABSCHNITT 14: ANGABEN ZUM TRANSPORT

Gemäß: ADR, RID, ADN, IMDG, IATA/ICAO.

14.1. UN-Nummer

Nicht reguliert.

14.2. Ordnungsgemäße UN-Versandbezeichnung

Nicht reguliert.

14.3. Transportgefahrenklassen

Nicht reguliert.

14.4. Verpackungsgruppe

Nicht reguliert.

14.5 Umweltgefahren

Nicht zutreffend.

14.6 Besondere Vorsichtsmaßnahmen für den Verwender

Nicht zutreffend.

14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code

Nicht zutreffend.

ABSCHNITT 15: RECHTSVORSCHRIFTEN

15.1. Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

Verwendungsbeschränkungen

Keine.

Sonstige Vorschriften

Keine.

WGK-Einstufung

Wassergefährdungsklasse = 0: Nicht wassergefährdend (WGK 0)

15.2 Stoffsicherheitsbeurteilung

Nicht erforderlich.

ABSCHNITT 16: SONSTIGE ANGABEN

**Auf den vollständigen Text der
Gefahrenhinweise wird unter**

Nicht zutreffend.

**Abschnitt 2 und 3 Bezug
genommen**

Hinweis zur Überarbeitung	Format aktualisiert in Übereinstimmung mit den EU-Vorschriften REACH und CLP. Verzeichnis der Änderungen, die an der letzten Version des Sicherheitsdatenblattes vorgenommen wurden: Persönliche Schutzausrüstung. Entfernen 67/548/EEC und 1999/45/EC.
Schulungshinweise	Arbeitnehmer müssen im bestimmungsgemäßen Umgang mit diesem Produkt geschult werden.
Abkürzungen und Akronyme	S-PVC: polyvinylchloride produced by suspension polymerization CLP: Classification, Labeling and Packaging (Einstufung, Kennzeichnung und Verpackung) EK: Europäischen Kommission REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances (Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe) DNEL: Derived No Effect Level (Abgeleitetes Null-Effekt-Niveau) PNEC: Predicted No Effect Concentration (vorhergesagte unwirksame Konzentration) STOT: Specific Target Organ Toxicity (Zielorgan-Toxizität) PBT: Persistent, Bioakkumulierbar, Toxisch vPvB: very Persistent and very Bioaccumulating (sehr Persistent und sehr Bioakkumulierbar) ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations for the International Transport of Dangerous Goods by Rail) ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) IMDG: International Maritime Dangerous Goods Code ICAO: International Civil Aviation Organization
SDB-nr	SE00002 / CLP3

Haftungsschluss

Die im vorliegenden Sicherheitsdatenblatt bereitgestellten Informationen sind zum Datum der Veröffentlichung nach unserem bestem Wissen zutreffend. Die Informationen sind nur zur Orientierung für eine sichere Handhabung, Verwendung, Verarbeitung, Lagerung, Transport, Entsorgung und im Falle von Verschüttetem bestimmt und gelten nicht als Garantie und Qualitätsspezifikationen. Diese Informationen beziehen sich lediglich auf das explizit angegebene Material und können bei Verwendung mit anderen Materialien oder anderen Abläufen für ein solches Material keine Gültigkeit haben, falls nicht im Text spezifiziert

Ende des Sicherheitsdatenblatts

Masterminds PE Grey 70/6453M

Print date : 04-05-2021

Description: 46% Pigment dispersion in PE carrier with extender

Technical Information: Heat resistance (EN 12877-2/A) : 300°C

Light fastness (ISO R879/DIN 53387) : 8 (based on pigments)

Weather resistance (3000 hr/ISO Greyscale 1-5) : 5 (based on pigments)

Recommended Dosage : Depending on application

Heavy metal free : Yes

Diarylide free : Yes

Delivery form: Granules (LxD = 3.1x2.7mm ± 10%) :

Application: PE/PP

Further Details:

Pigment specification ; White C.I. 77891 / Green C.I. 77288 / Yellow C.I. 77496 / Black C.I. 77266

Carrier specification ; LDPE (CAS 9002-88-4) / CaCO₃ (CAS 471-34-1)

Disclaimer

All above mentioned data have been carefully checked according specific testing procedures and/or based on data of pigments and experience on compatible formulations. The data are provided for informational purposes only. Therefore no guarantee or warranty can be expected from these data. They are part of the quality and delivery specifications

The applicability of the product should be tested under local processing conditions, at the converter

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TiONA [®] AT-1	TiONA [®] R-KB-2	TiONA [®] 41J
TiONA [®] 3	TiONA [®] 813	TiONA [®] 828E
TiONA [®] RCL-69	TiONA [®] 822	TiONA [®] 113
TiONA [®] 168	TiONA [®] 826	TiONA [®] 121
TiONA [®] 242	TiONA [®] 828	TiONA [®] 122
TiONA [®] 244	TiONA [®] 834	TiONA [®] 128
TiONA [®] 288	TiONA [®] 880	TiONA [®] 134
TiONA [®] 470	TiONA [®] 8300	TiKON [™] 33
TiONA [®] 595	TiONA [®] 8400	TiKON [™] 35
TiONA [®] 696	TiONA [®] 8870	TiKON [™] 36
TiONA [®] 722	TiONA [®] 8140	TiONA [®] R-U-F

The following statements of compliance apply to the above-listed products unless specified otherwise. They should not be interpreted as a guarantee that the product will perform in a particular application. The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information given is not to be considered a warranty or quality specification. The information contained is subject to change without notice. Regularly check the status of items of interest to you.

Refer to separate Food Contact Bulletins for food contact compliance

Safety Data Sheets for these products may be accessed at: <https://www.tronox.com/products/titanium-dioxide/>

Should you have any additional questions, please contact your Tronox representative or email us at ChemProdSteward@Tronox.com



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The information set forth herein is furnished free of charge and based on technical data that Tronox believes to be reliable, to the best of knowledge. Nothing herein is to be taken as license to operate under or a recommendation to infringe any patents. This information and our technical advice - whether verbal, in writing or by way of trials -are given to the best of our knowledge but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale and Delivery.



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General Restrictions — Medical Device, Food, Drug, Cosmetics and Tobacco Applications

TiONA® and TiKON™ products are not intended for human or animal consumption, pharmaceutical, cosmetic (including soap and personal care) products, or cigarette filters/papers and Tronox will not knowingly offer product for use in these applications. TiONA® and TiKON™ products must not be used in the manufacture of any medical device article intended for implantation in the human body.

EUROPE

End-Of Life Vehicles - European Directive 2000/53/EC

TiONA® and TiKON™ products are compliant with EU Directive 2000/53/EC as amended. The concentrations of lead, mercury, cadmium and hexavalent chromium materials do not exceed the specified limits.

Packaging Waste - European Directive 2004/12/EC

TiONA® and TiKON™ products are compliant with the EU Directive 2004/12/EC, amending Directive 94/62/EC, Article 11 regarding concentration levels of heavy metals in packaging. Specifically, the sum of the concentrations of lead, mercury, cadmium and hexavalent chromium is less than 100 ppm by weight.

Perfluorooctane sulfonates (PFOS) – European Directive 2006/122/EC

TiONA® and TiKON™ products are compliant with EU Directive 2006/122/EC, amending Directive 76/769/EEC. Specifically, they do not contain any perfluorooctane sulfonates (PFOS) as additives or raw materials.

REACH Regulation 1907/2006/EC, Annex XVII

TiONA® and TiKON™ pigments are not manufactured with raw materials or additives known to contain substances subject to restrictions. From process knowledge, the restricted substances specified in REACH Regulation 1907/2006/EC, Annex XVII (<https://echa.europa.eu/substances-restricted-under-reach>) are not expected to be present in these products.

REACH Substances of Very High Concern (SVHC)

TiONA® and TiKON™ pigments are not manufactured with raw materials or additives known to contain substances listed on the Candidate List of Substances of Very High Concern, as published on the ECHA website (<https://echa.europa.eu/candidate-list-table>) on 19th January 2021. Therefore, to the best of our knowledge TiONA® and Tikon™ products do not contain substances included in the Annex XIV (“Authorization List”) at levels greater than 0.1% by weight. If any constituent of the above-mentioned products appears on future editions of the Candidate List, we will endeavour to inform our customers.

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Restrictions on the marketing and use of certain dangerous substances and preparations (phthalates in toys and childcare articles) – European Directive 2005/84/EC

TiONA® and TiKON™ products are compliant with Directive 2005/84/EC of the European Parliament and of the Council of 14 December 2005 amending 2003/11/EC of the European Parliament and of the Council of 6 February 2003 amending Council Directive 76/769/EEC (<https://eur-lex.europa.eu/eli/dir/2005/84/oj>). They do not contain pentabromodiphenyl ether, octabromodiphenyl ether, bis (2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), di-“isononyl” phthalate (DINP), di-“isodecyl” phthalate (DIDP), di-n-octyl phthalate (DNOP) or any other phthalates.

RoHS and WEEE - European Directives 2002/95/EC, 2011/65/EU as amended including 2015/863/EU, and 2002/96/EC recast as 2012/19/EC.

TiONA® and TiKON™ products are compliant with EU Directives 2002/95/EC and 2011/65/EU and with EU Directive 2002/96/EC recast as 2012/19/EC (<https://eur-lex.europa.eu/eli/dir/2012/19/oj>). Specifically, they do not contain any of the cited materials (listed below) at concentrations greater than allowed in Directive 2002/95/EC Article 4(1).

- Mercury / Hg (0.1%)
- Lead / Pb (0.1%)
- Cadmium / Cd (0.01%)
- Hexavalent Chromium / Cr⁶⁺ (0.1%)
- Polybrominated biphenyl / PBB (0.1%)
- Polybrominated diphenyl ethers / PBDE / including DecaBDE (0.1%)
- Bis(2-ethylhexyl) phthalate (DEHP) (0.1 %)
- Butyl benzyl phthalate (BBP) (0.1 %)
- Dibutyl phthalate (DBP) (0.1 %)
- Diisobutyl phthalate (DIBP) (0.1 %)

Toy Safety - European Toy Standard EN71-3:2019 and European Directive 2009/48/EC

European Toy Standard EN 71-3:2019 and Directive 2009/48/EC specify conformance of final toy products with the migration limits laid down for the 19 elements of concern. These limits are applicable to the finished toy component and therefore it is not possible to provide declarations of conformity for TiONA® and TiKON™ products. Apart from aluminium, none of the metals or organic compounds cited in the EU Standard and Directive are intentionally added as raw materials or additives in the manufacture of TiONA® and TiKON™ products. In common with most surface treated titanium dioxide products, most TiONA® and TiKON™ products are intentionally coated with aluminium compounds to improve processing and durability properties in the application. Because the titanium dioxide pigment is normally encapsulated by a plastics matrix, or an ink or coating resin, it is not directly available to the consumer. Nevertheless the EU Standard and Directive applies to the toy itself and accordingly the final toy material requires final testing to determine that neither aluminium nor any of the 19 controlled elements migrate above the allowable limits. Please refer to our technical data sheet for surface chemistry.

The information set forth herein is furnished free of charge and based on technical data that Tronox believes to be reliable, to the best of knowledge. Nothing herein is to be taken as license to operate under or a recommendation to infringe any patents. This information and our technical advice - whether verbal, in writing or by way of trials - are given to the best of our knowledge but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale and Delivery.



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AMERICAS

California Proposition 65

Titanium dioxide products contain a chemical known to the State of California to cause cancer: ‘*titanium dioxide (airborne, unbound particles of respirable size)*’. Titanium dioxide used in applications such as paint, plastics, and paper is fully encapsulated within a solid or liquid matrix and accordingly, non-respirable. As a result, such applications do not require warning statements as they do not meet the listing requirements.

Dodd-Frank Wall Street Reform and Consumer Protection Act - Conflict Minerals

No “conflict minerals”, as defined by Section 1502 (e) (4) of HR 4173, the Dodd-Frank Wall Street Reform and Consumer Protection Act (columbite-tantalite (coltan), cassiterite, gold, wolframite or their derivatives), or any other ores/minerals sourced from Democratic Republic of the Congo (DRC) or neighbouring countries (contiguous nation states of South Sudan, Uganda, Rwanda, Burundi, Tanzania, Zambia, Angola, Congo, and the Central African Republic are used to produce TiONA® and TiKON™ titanium dioxide pigments.

<https://www.govinfo.gov/content/pkg/PLAW-111publ203/pdf/PLAW-111publ203.pdf>

US Toxic Substances Control Act (TSCA)

All components of TiONA® and TiKON™ products are exempt from, implicitly included, or designated as “active” substances in U.S. commerce in the U.S. EPA’s Toxic Substances Control Act’s (TSCA) Chemical Substance Inventory (<https://www.epa.gov/tscainventory>), as required by EPA’s TSCA Inventory Notification (Active-Inactive) Rule (82 FR 37520) promulgated under TSCA, as amended by the Frank R. Lautenberg Chemical Safety for the 21st Century Act (P.L. 114-182).

Ozone Depleting Substances Status

TiONA® and TiKON™ products do not contain, and are not manufactured with ozone depleting chemicals as defined in 40 CFR Part 82, Appendices A and B of Subpart A.

Toy Safety – ASTM F963-11

TiONA® and TiKON™ products are compliant with the metals extraction limitations cited in ASTM F963-11. Note that the manufacturer of any toy product has the responsibility to ensure that the finished article complies with this directive including the migration limits.

TPCH – Toxics in Packaging Clearing House (Heavy Metals)

TiONA® and TiKON™ products are compliant with the CONEG Model Legislation regarding heavy metals content. Specifically, the sum of the concentrations of lead, mercury, cadmium and hexavalent chromium is less than 100 ppm by weight. (<https://www.coneg.org/resources/tpch/>)

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Regulatory Affairs Bulletin (RAB)

NSF / ANSI 14: Plastics Piping System Components and Related Materials

Tronox offers the following titanium dioxide products which have been certified to NSF/ANSI 14: Plastics Piping System Components and Related Materials. Listed products comply with NSF/ANSI/CAN 61 health effects requirements when tested at 73°F. To confirm the status of any Tronox product which is NSF listed, visit [NSF Product and Service Listings](#).

TiONA® 470/ CR-470	TiONA® 826/ CR-826	TiONA® 834/ CR-834
TiONA® 822/ CR-822	TiONA® 828/ CR-828	

OTHER CLAIMS / INFORMATION

Shelf-life and Storage

TiONA® and TiKON™ product have an essentially indefinite shelf life provided no adverse storage conditions are encountered. Titanium dioxide, sold in a dry powder form, can pick up moisture from the environment potentially having an adverse effect on pigment performance. We recommend storing TiONA® and TiKON™ titanium dioxide products on the original plastic wrapped pallets indoors in a dry place, away from rain, wet floors, and protected from warehouse condensation. Titanium dioxide pigment will not freeze. Excessive compaction may also adversely affect pigment performance. For this reason and for safe handling, Tronox recommends that pallets be stacked no more than two high. Tronox recommends that product be used on a first-in first-out basis from receipt of the shipment.

Radioactive Materials

TiONA® and TiKON™ titanium dioxide products do not contain any intentionally added radioactive materials. While titanium dioxide is derived from ore sources where naturally occurring radioactive materials (NORM) may be present, Tronox titanium dioxide products, as manufactured, are stable and show no measurable radioactive instability or degradation

BSE Bovine Spongiform or Transmissible Spongiform Encephalopathy (Mad Cow Disease)

TiONA® and TiKON™ products are not manufactured with any ingredient of bovine origin, including gelatin and blood derivatives. Further, these products do not contain any animal derived ingredients.

CITES - Convention on International Trade in Endangered Species Of Wild Fauna And Flora

TiONA® and TiKON™ products are not manufactured with any species listed in the latest CITES Appendix (<https://www.cites.org/eng/app/index.php>).

Dust Explosion

Titanium dioxide being a fully oxidized substance cannot initiate or support combustion or participate in a dust explosion.

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Regulatory Affairs Bulletin (RAB)

Food Allergens

TiONA[®] and TiKON[™] products do not contain any of the below referenced food allergens nor the essential proteins derived from them. These products are inorganic pigments.

- Milk, eggs, fish, crustacean shellfish, tree nuts, wheat, peanuts, and soybeans (USA)
- Wheat, rye, barley, oatmeal and hybridized strains, crustacean shellfish, eggs, fish, peanuts, soya bean, milk from any species of mammals, almonds, hazelnuts, cashew nuts, Brazilian nuts, macadamia, nuts, pecan nuts, pistachio, pinoli/pine nuts, chestnut, natural latex (South America - RDC N° 26 “Alergênicos” of 07/02/2015)
- Hickory nuts, walnuts, refined or unrefined oils
- Milk products, dairy products, dairy derivatives, lactose with protein, soy flour, any soy product
- Fish (e.g. cod, salmon) or fish products, shellfish, crustaceans (e.g. shrimp, crabs, lobsters, oysters, clams, scallops, crayfish), molluscs (e.g. snails, clams, squid, octopi) or mollusc products
- Sulfites, food colors, carmine, cochineal, corn, celery or celery products, wheat (gluten) or wheat products, seeds (e.g. cotton, poppy, sesame, sunflower, mustard) or seed products, aspartame;
- Monosodium (MSG), caffeine, hydrogenated vegetable protein (HVP), hydrolysed protein
- Grains (e.g. rye, barley, oats), lecithin, lupine or lupine products

Genetically Modified Organisms (GMO)

TiONA[®] and TiKON[™] products do not contain, and are not made from, genetically modified organisms.

Global Automotive Declarable Substance List (GADSL)

TiONA[®] and TiKON[™] products are compliant with the latest GADSL reference list (<https://www.gadsl.org/>). The materials listed in the reference list are not intentionally added as raw materials or additives. From process knowledge their presence is not expected or in the case of metal impurities, our monitoring shows that the specified maximum levels are not exceeded.

Global Chemical Inventory Compliance

See the relevant Safety Data Sheet (SDS) Section 15 for the compliance status of individual products. SDSs for TiONA[®] and TiKON[™] products may be accessed at <https://www.tronox.com/products/titanium-dioxide/> to select the products, select Titanium Dioxide Pigment, then select Application (Paint & Coatings / Plastics / Paper / Printing Ink) and Region.

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Regulatory Affairs Bulletin (RAB)

Halal Status

TiONA® and TiKON™ products do not have any Halal status as the products and the process have not been reviewed and blessed by an Imam. They do not contain any animal derived ingredients.

Heavy Metals

(Please note that the below representation does not apply to TiONA®AT-1. Please contact your Tronox representative for information on the purity of TiONA®AT-1).

Acid extractable testing (0.1M hydrochloric acid) of representative samples of TiONA® and TiKON™ products have shown the following are not present at the limits of detection listed in parenthesis: antimony (1 ppm), arsenic (5 ppm), barium (1 ppm), cadmium (1 ppm), chromium (10 ppm), lead (2 ppm), mercury (1 ppm), selenium (1 ppm).

Certificates of analysis from an accredited third-party laboratory are available upon request.

IARC

In February 2006, the International Agency for Research on Cancer (IARC), an agency of the United Nations World Health Organization, changed the classification of TiO₂ to possibly carcinogenic to humans (2B). This Monograph was published in January 2011 as Monograph 93. It can be accessed at: <http://monographs.iarc.fr/ENG/Monographs/vol93/index.php> The Titanium Dioxide Manufacturers Association (TDMA), a European Chemical Industry Council (CEFIC) sector group, of which Tronox is a member, has issued a paper explaining the background and its opinion of this listing, and this can be accessed at <http://www.tdma.info/positions-statements>. Safety Data Sheets for TiONA® and TiKON™ products refer to the IARC listing in section 11 and they may be accessed at <https://www.tronox.com/products/titanium-dioxide/> to select the product, select Titanium Dioxide Pigment, the select Application (Paint & Coatings / Plastics / Paper / Printing Ink) and Region.

Kosher Status

TiONA® and TiKON™ products do not have any Kosher status as the products and the process have not been reviewed and blessed by a Rabbi. They do not contain any animal-derived ingredients.

Latex Content

TiONA® and TiKON™ products do not contain natural rubber latex, dry natural rubber or synthetic latex or synthetic rubber that contains natural rubber.

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Regulatory Affairs Bulletin (RAB)

Biocides, Fungicides and Preservatives

TiONA[®] and TiKON[™] products are offered as dry powder with some products also available in liquid slurry form. Tronox does not add biocides, fungicides, synthetic fungicides, preservatives, or fumigant pesticides in the manufacture of our dry titanium dioxide pigment products. However, Tronox titanium dioxide slurry products do contain a proprietary biocide package to inhibit microorganism growth in these aqueous formulations. Tronox slurry processes are segregated from pigment manufacturing processes with no potential for cross contamination.

Manufacturing Restricted Substances List (MRSL)

TiONA[®] and TiKON[™] products are compliant with the latest Zero Discharge of Hazardous Chemicals (ZDHC) MRSL reference list. The materials listed in the reference list are not intentionally added as raw materials or additives. (<https://mrsl.roadmaptozero.com/>).

Nanomaterials

The European Commission recommended definition of nanomaterial¹ is “A natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm.”.

The United States OSHA’s definition of a nanomaterial² is “Materials that have been purposefully manufactured, synthesized, or manipulated to have a size with at least one dimension in the range of approximately 1 to 100 nanometres and that exhibit unique properties determined by their size.”

Health Canada³ considers “any manufactured substance or product and any component material, ingredient or device or structure to be a nanomaterial if: It is at or within the 1 to 100 nanometres in at least one external dimension, or has internal or surface structure at 1 to 100 nanometres OR It is smaller or larger than the 1 to 100 nanometres in all dimensions and exhibits one or more nanoscale properties or phenomena. Policy Statement of Health Canada’s Working Definition for Nanomaterial further clarifies “manufactured” as “engineering processes and control of matter that lead to the synthesis, generation, fabrication or isolation of nanomaterials”.

The mean particle size of TiONA[®] and TiKON[™] products is larger than 100nm but as with all particulate materials there is a distribution of particle sizes around the mean with a minor, unintended and unavoidable fraction of the particles that have one or more dimensions in the 1-100nm size range. The fraction is less than 50% by number and accordingly we consider that TiONA[®] and TiKON[™] products **do not** meet the above definitions of nanomaterials recommended by the EU Commission, the United States and Health Canada

Sony Technical Standard SS-00259

TiONA[®] and TiKON[™] products are compliant with Sony Technical Standard SS-00259. The materials listed in Table 4.1 (list of Environment-related Substances to be Controlled) are not intentionally added as raw materials or additives in the manufacture of TiONA[®] and TiKON[™] products. (<https://www.sony.net/SonyInfo/procurementinfo/ss00259/>)

¹ Commission Recommendation of 18 October 2011 on the definition of nanomaterial (2011/696/EU)

² <https://www.osha.gov/nanotechnology>

³ Policy Statement of Health Canada’s Working Definition for Nanomaterial

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UN Drug Control Conventions

TiONA[®] and TiKON[™] products do not contain any component that is listed as a narcotic on the “Yellow List, as a psychotropic substance on the “Green List”, or as a precursor substance on the “Red List”.

Restricted Substances

The chemical materials listed below are not used in the manufacture of, or intentionally added to TiONA[®] and TiKON[™] products. Our knowledge of the manufacturing process is that they are not present in TiONA[®] and TiKON[™] products and accordingly analysis is not conducted.

Chemical	Common Name/Family	CAS #
1,2-dihydro-acenaphthene	PAH	83-32-9
1,3, 5-Triazine-2,4,6-triamine	Melamine	108-78-1
1,4-dichlorobutane		110-56-5
IH-benzotriazole		95-14-7
1-methyl-2-pyrrolidone	NMP	872-50-4
1-naphthol		90-15-3
2-(2H-1, 2, 3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol	Benzotriazole	3846-71-7
2-(3,5-Di-tert-butyl-2-hydroxyphenyl)-5-chlorobenzotriazole		3864-99-1
2,4,4'-trichloro-2'-hydroxydiphenyl ether	Triclosan	3380-34-5
2-mercaptobenzothiazole	MBT	149-30-4
2-naphthol		135-19-3
5-tert-butyl-2,4,6-trinitro-m-xylene	Musk xylene	81-15-2
9H-fluorene	PAH	86-73-7
Absorbable Organic Halogens (AOX)		
Acenaphthylene	PAH	208-96-8
Acrolein	Propenal	107-02-8
Acrylamide		79-06-1
Acrylonitrile		107-13-1
Adipic acid		124-04-9
Alkylphenols		
Alkylphenol Ethoxylates	APEOs	
Amine compounds generated from Azo compounds		
Ammonium pentadecafluorooctanoate	APFO	3825-26-1
Animal-origin ingredients		
Anthracene	PAH	120-12-7
Aromatic amines, including		
6-amino-2-ethoxynaphthaline		293733-21-8
4-amino-3-fluorophenol		399-95-1

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Chemical	Common Name/Family	CAS #
Para-phenylenediamine (PPD)		106-50-3
2,4-xylydine		95-68-1
2,6-xylydine		87-62-7
Artificial color		
Artificial flavor		
Asbestos		133207-32-0
Aspartame sucralose		
Azodicarbonamide / Azobisformamide	ABF	123-77-3
Azo Dyes and Pigments		
Benzidine		92-87-5
Benz(a)anthracene	PAH	56-55-3
Benzo(a)pyrene	PAH	50-32-8
Benzo(b)fluoranthene	PAH	205-99-2
Benzo(e)pyrene	PAH	192-97-2
Benzo(ghi)perylene	PAH	191-24-2
Benzo(j)fluoranthene	PAH	205-82-3
Benzo(k)fluoranthene	PAH	207-08-9
Benzonitrile, 2-hydroxy		611-20-1
Benzophenone		119-61-9
Beryllium copper		11108-64-8
Beryllium oxide		1304-56-9
Biocides		
Bis(2-methoxyethyl)ether	BMEE	111-96-6
Bisphenol compounds including (but not limited to) A, B, and S		
Butylated hydroxyanisole	BHA	121-00-6, 25013-16-5
Chlorinated benzenes and toluenes		
Chlorinated paraffins		
Chlorinated phenols		
Chloropropanol		627-30-5
Chrysene	PAH	218-01-9
Cobalt chloride		7646-79-9
Corn products		
Cyanide		74-90-8
Dibenz(a,h)anthracene	PAH	53-70-3
Dimethylformamide	DMFA	68-12-2
Dimethyl fumarate	DMF	624-49-7
Diphenyl ketone, Diphenylmethanone		119-61-9
Dioxins		
Drometrizole		2440-22-4
Dyestuffs classified as allergenous		

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Chemical	Common Name/Family	CAS #
Dyestuffs classified as carcinogenic		
Epichlorohydrin	ECH	106-89-8
Ethyl alcohol		64-17-5
Extractable Organic Halogens (EOX)		
Fluoranthene	PAH	206-44-0
Fluorene	PAH	86-73-7
Fluorocarbons		
Fluorotelomers		
Formaldehyde		50-00-0
Formamide		75-12-7
Glutaric Acid		110-94-1
Glycerides, castor-oil mono-, hydrogenated, acetates		736150-63-3
Halogens		
Halogenated hydrocarbons, including CFC, HCFC, HFC		
Indeno(1,2,3-cd)pyrene	PAH	193-39-5
Isothiazolinone	BIT, CIT, MIT	2634-33-5, 26172-55-4, 2682-20-4
Long-chain perfluorinated chemicals	LCPFCs	
Mercaptobenzothiazole		149-30-4
Mineral oils		
Monosodium glutamate		147-47-2
N-isopropyl-N-phenyl-4-phenylenediamine		101-72-4
Naphthalene	PAH	91-20-3
Natural color additives		
Nitrosamines		
Nonylphenol		25154-52-3
Nonylphenol ethoxylates		9016-45-9
Octadecanoic acid		57-11-4
Organotin compounds		
Pentachlorophenol and its esters and salts	PCP	
Pentadecafluorooctanoic acid	PFOA	335-67-1
Per- and polyfluoroalkyl substances	PFASs	
Perfluorinated alkyl acids		
Perfluorinated chemicals		
Perfluoroalkyls		
Perfluorochemicals	PFCs	
Perfluorooctane sulfonate	PFOS	1763-23-1
Perfluorooctanoic acid	PFOA	335-67-1
Phenanthrene	PAH	85-01-8

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Chemical	Common Name/Family	CAS #
Phenols		
Phthalates		
Polybrominated biphenyls	PBBs	
Polybrominated diphenyl ethers	PDBEs	
Polybrominated terphenyls	PBTs	
Polychlorinated biphenyls	PCBs	
Polychlorinated naphthalenes	PCNs	
Polychlorinated terphenyls	PCTs	
Polycyclic aromatic hydrocarbons		
Polyfluorinated chemicals		
Polyfluorinated compounds		
Polystyrene		9003-53-6
Polyvinyl chloride	PVC	9002-86-2
Potassium dichromate		7778-50-9
Preservatives	BHT	
Propolis		85665-41-4
Pyrene	PAH	129-00-0
Radon		10043-92-2
Refractory ceramic fibers		
Rye, Oats, Barley		
Sodium aluminium phosphate-acidic		10305-76-7
Sodium aluminosilicate		1344-00-9
Stearamide		124-26-5
Seeds		
Styrene monomer		100-42-5
Succinic acid		110-15-6
Succinic anhydride		108-30-5
Sulfites		
TALC		14807-96-6
Tertiary Butylhydroquinone	TBHQ	1948-33-0
Toluene		108-88-3
Tributyltin compounds	TBT	
Triphenyltin compounds	TPT	
Tris-nonylphenol phosphite	TNPP	26523-78-4
Tropical oils		
Turpentine		8006-62-2
Vinyl chloride		75-01-4
Volatile Organic Compounds		

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