



Derwent Academy Acrylic Paints- 24CT

Safety Data Sheet

*** DRAFT ***

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 19/05/2017

Revision date: 19/05/2017

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

1.1. Product identifier

Product form : Mixture
Product name : Derwent Academy Acrylic Paints- 24CT
Product code : 98070

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

1.2.1. Relevant identified uses

Main use category : Consumer use
Use of the substance/mixture : Paint

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ACCO Brands
Four Corporate Drive
Lake Zurich, IL
60047

Phone: 800-222-6462

1.4. Emergency telephone number

Emergency number : Rocky Mountain Poison + Drug center Phone number are (877)740-5015 (US Toll Free) and (303) 739-1110 (Outside US)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	National Poisons Information Service (NHS Direct)	http://www.npis.org	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
polyacrylic acid	(CAS-No.) 9003-01-4	15 - 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Titanium(IV) oxide substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, ES, FR, GB, GR, IE, LT, LV, PT, SE, SK)	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (REACH-no) 01-2119489379-17-XXXX	1 - 30	Not classified
barium sulfate substance with national workplace exposure limit(s) (BE, BG, DE, ES, GB, IE, PT, SK)	(CAS-No.) 7727-43-7 (EC-No.) 231-784-4	5 - 30	Not classified
iron hydroxide oxide yellow substance with national workplace exposure limit(s) (AT, BE, BG, DK, ES, FI, FR, GB, GR, HU, IE, LT, PL, PT, RO, SE, SK)	(CAS-No.) 51274-00-1 (EC-No.) 257-098-5	1 - 15	Not classified
carbon black substance with national workplace exposure limit(s) (BE, DK, ES, FI, FR, GB, GR, IE, PT, SE)	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	5 - 15	Not classified
iron oxide substance with national workplace exposure limit(s) (AT, BE, BG, DK, ES, FI, FR, GB, GR, HU, IE, LT, PL, PT, RO, SE, SK)	(CAS-No.) 1309-37-1 (EC-No.) 215-168-2	0,1 - 15	Not classified
C.I. pigment blue 15 substance with national workplace exposure limit(s) (LT, LV)	(CAS-No.) 147-14-8 (EC-No.) 205-685-1	1 - 15	Not classified
1,2-propanediol substance with national workplace exposure limit(s) (GB, IE, LT, LV)	(CAS-No.) 57-55-6 (EC-No.) 200-338-0	1 - 5	Not classified
methacrylic acid, polymer with ethyl acrylate	(CAS-No.) 25212-88-8	1 - 5	Acute Tox. 4 (Inhalation), H332

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,2-propanediol (57-55-6)		
Croatia	Local name	Propane-1,2-diol (-ukupno pare i čestice)
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	474 mg/m³ 10 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	150 ppm 150 ppm
Ireland	Local name	Propane-1,2-diol
Ireland	OEL (8 hours ref) (mg/m³)	470 mg/m³ total (vapour and particulates) 10 mg/m³ particulates
Ireland	OEL (8 hours ref) (ppm)	150 ppm total (vapour and particulates)
Latvia	Local name	Propilēnglikols (1,2-propāndiols)
Latvia	OEL TWA (mg/m³)	7 mg/m³
Lithuania	Local name	Propilenglikolis
Lithuania	IPRV (mg/m³)	7 mg/m³
United Kingdom	Local name	Propane-1,2-diol
United Kingdom	WEL TWA (mg/m³)	474 mg/m³ Propane-1,2-diol total vapour and particulates; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Propane-1,2-diol particulates; 10 mg/m³; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	150 ppm Propane-1,2-diol total vapour and particulates; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
Norway	Local name	Propan-1,2-diol
Norway	Grenseverdier (AN) (mg/m³)	79 mg/m³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Australia	Local name	Propane-1,2-diol total: (vapour & particulates)
Australia	TWA (mg/m³)	474 mg/m³ 10 mg/m³
Australia	TWA (ppm)	150 ppm
barium sulfate (7727-43-7)		
Belgium	Local name	Baryum (sulfate de) # Bariumsulfaat
Belgium	Limit value (mg/m³)	10 mg/m³
Bulgaria	Local name	Бариев сулфат
Bulgaria	OEL TWA (mg/m³)	10 mg/m³

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barium sulfate (7727-43-7)		
Croatia	Local name	Barijev sulfat
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³ U (ukupna prašina) 4 mg/m³ R (respirabilna prašina)
Germany	Local name	Bariumsulfat
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	1,25 mg/m³ A (mg/m³) 10 mg/m³ E (mg/m³)
Germany	Remark (TRGS 900)	AGS,DFG
Ireland	Local name	Barium sulphate, respirable dust
Ireland	OEL (8 hours ref) (mg/m³)	2 mg/m³
Portugal	Local name	Sulfato de bário
Portugal	OEL TWA (mg/m³)	5 mg/m³ I (Fracão inalável), E (O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina)
Slovakia	Local name	Síran (sulfát) bárnatý
Slovakia	NPHV (priemerná) (mg/m³)	4 mg/m³ inhalovateľná frakcia 1,5 mg/m³ respirabilná frakcia
Spain	Local name	Sulfato de bario
Spain	VLA-ED (mg/m³)	10 mg/m³
Spain	Notes	e (Este valor es para la materia particulada que no contenga amianto y menos de un 1% de sílice cristalina).
United Kingdom	Local name	Barium sulphate
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ Barium sulphate inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Barium sulphate respirable dust; 4 mg/m³; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
Australia	Local name	Barium sulphate
Australia	TWA (mg/m³)	10 mg/m³
Australia	Remark (AU)	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
USA - ACGIH	Local name	Barium sulfate
USA - ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA - ACGIH	Remark (ACGIH)	Pneumoconiosis
iron hydroxide oxide yellow (51274-00-1)		
Austria	Local name	Eisenoxide
Austria	MAK (mg/m³)	5 mg/m³
Austria	MAK Short time value (mg/m³)	10 mg/m³
Belgium	Local name	Fer (trioxyde de) (fumées) (en Fe) # IJzeroxide (rook) (Fe2O3) (als Fe)
Belgium	Limit value (mg/m³)	5 mg/m³
Belgium	Limit value (ppm)	2 ppm
Bulgaria	Local name	Желязо оксиди
Bulgaria	OEL TWA (mg/m³)	5 mg/m³ като желязо
Croatia	Local name	Željezov (III) oksid, dim (kao Fe)
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	5 mg/m³ 10 mg/m³ U (ukupna prašina) 4 mg/m³ R (respirabilna prašina)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	10 mg/m³
Denmark	Local name	Jernoxid
Denmark	Grænseværdie (langvarig) (mg/m³)	3,5 mg/m³ beregnet som Fe
Estonia	Local name	Raudoksiid, peentolm (arvutatud rauale)
Estonia	OEL TWA (mg/m³)	3,5 mg/m³
Finland	Local name	Rautaoksidi, huurut
Finland	HTP-arvo (8h) (mg/m³)	5 mg/m³
Finland	Huomautus (FI)	Fe
France	Local name	Trioxyde de fer
France	VME (mg/m³)	5 mg/m³ (fumées, en Fe)

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iron hydroxide oxide yellow (51274-00-1)		
France	Note (FR)	Valeurs recommandées/admises
Greece	OEL TWA (mg/m³)	10 mg/m³
Greece	OEL STEL (mg/m³)	10 mg/m³
Hungary	Local name	VAS(III)-OXID (Fe-ra számítva)
Hungary	AK-érték	6 mg/m³
Ireland	Local name	Iron salts (as Fe)
Ireland	OEL (8 hours ref) (mg/m³)	1 mg/m³
Ireland	OEL (15 min ref) (mg/m³)	2 mg/m³
Lithuania	Local name	Geležies oksidas
Lithuania	IPRV (mg/m³)	3,5 mg/m³ (kaip Fe); alveolinė frakcija
Lithuania	Remark (LT)	Žiūrėti 1 priedo 3 punktą.
Poland	Local name	Tlenki żelaza w przeliczeniu na Fe dymy
Poland	NDS (mg/m³)	5 mg/m³
Poland	NDSch (mg/m³)	10 mg/m³
Portugal	Local name	Óxido de ferro
Portugal	OEL TWA (mg/m³)	5 mg/m³ R (Fração respirável)
Romania	Local name	Oxid feric (fumuri, pulberi)
Romania	OEL TWA (mg/m³)	5 mg/m³
Romania	OEL STEL (mg/m³)	10 mg/m³
Slovakia	Local name	Oxidy železa, dymy (ako Fe)
Slovakia	NPHV (priemerná) (mg/m³)	1,5 mg/m³ respirabilná frakcia 4 mg/m³ inhalovateľná frakcia
Spain	Local name	Óxido de hierro (III)
Spain	VLA-ED (mg/m³)	5 mg/m³ (polvo y humos), como Fe
Sweden	Local name	Järnoxid (som Fe)
Sweden	nivågränsvärde (NVG) (mg/m³)	3,5 mg/m³ respirabelt damm
Sweden	Anmärkning (SE)	2 (Med respirabelt damm menas den dammfraction som definieras i svensk standard SS-EN 481, Arbetsplatsluft – Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.11 och som har en provtagningskaraktäristik enligt punkt 5.3)
United Kingdom	Local name	Iron salts
United Kingdom	WEL TWA (mg/m³)	1 mg/m³ (as Fe)
United Kingdom	WEL STEL (mg/m³)	2 mg/m³ (as Fe)
Iceland	Local name	Járnoxíð, sem Fe, örfínt ryk
Iceland	OEL (8 hours ref) (mg/m³)	3,5 mg/m³
Norway	Local name	Jern(III)oksid (beregnet som Fe)
Norway	Grenseverdier (AN) (mg/m³)	3 mg/m³
Switzerland	Local name	Eisenoxide
Switzerland	MAK (mg/m³)	3 mg/m³
Switzerland	Remark (CH)	a(mg/m³) - Lungenfib, Lunge - NIOSH, s. 1.8.2
Australia	Local name	Iron salts, soluble (as Fe)
Australia	TWA (mg/m³)	1 mg/m³
USA - ACGIH	Local name	Iron oxide (Fe O)
USA - ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA - ACGIH	Remark (ACGIH)	Pneumoconiosis
USA - OSHA	Local name	Iron oxide fume
USA - OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³
C.I. pigment blue 15 (147-14-8)		
Latvia	Local name	Varaftalcianīns
Latvia	OEL TWA (mg/m³)	5 mg/m³
Lithuania	Local name	Vario ftalcianinas
Lithuania	IPRV (mg/m³)	5 mg/m³

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iron oxide (1309-37-1)		
Austria	Local name	Eisenoxide
Austria	MAK (mg/m³)	5 mg/m³
Austria	MAK Short time value (mg/m³)	10 mg/m³
Belgium	Local name	Fer (trioxyde de) (fumées) (en Fe) # IJzeroxide (rook) (Fe ₂ O ₃) (als Fe)
Belgium	Limit value (mg/m³)	5 mg/m³
Bulgaria	Local name	Желязо оксиди
Bulgaria	OEL TWA (mg/m³)	5 mg/m³ като желязо
Croatia	Local name	Željezov (III) oksid, dim (kao Fe)
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	5 mg/m³ 10 mg/m³ U (ukupna prašina) 4 mg/m³ R (respirabilna prašina)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	10 mg/m³
Denmark	Local name	Jernoxid
Denmark	Grænseværdie (langvarig) (mg/m³)	3,5 mg/m³ beregnet som Fe
Estonia	Local name	Raudoksiid, peentolm (arvutatud rauale)
Estonia	OEL TWA (mg/m³)	3,5 mg/m³
Finland	Local name	Rautaoksidi, huurut
Finland	HTP-arvo (8h) (mg/m³)	5 mg/m³
Finland	Huomautus (FI)	Fe
France	Local name	Trioxyde de fer
France	VME (mg/m³)	5 mg/m³ (fumées, en Fe)
France	Note (FR)	Valeurs recommandées/admises
Greece	OEL TWA (mg/m³)	10 mg/m³
Greece	OEL STEL (mg/m³)	10 mg/m³
Hungary	Local name	VAS(III)-OXID (Fe-ra számitva)
Hungary	AK-érték	6 mg/m³
Ireland	Local name	Iron oxide, fume (as Fe)
Ireland	OEL (8 hours ref) (mg/m³)	5 mg/m³ 10 mg/m³ total inhalable dust 4 mg/m³ respirable dust
Ireland	OEL (15 min ref) (mg/m³)	10 mg/m³
Lithuania	Local name	Geležies oksidas
Lithuania	IPRV (mg/m³)	3,5 mg/m³ (kaip Fe); alveolinė frakcija
Lithuania	Remark (LT)	Žiūrėti 1 priedo 3 punktą.
Poland	Local name	Tlenki żelaza w przeliczeniu na Fe dymy
Poland	NDS (mg/m³)	5 mg/m³
Poland	NDSch (mg/m³)	10 mg/m³
Portugal	Local name	Óxido de ferro
Portugal	OEL TWA (mg/m³)	5 mg/m³ R (Fração respirável)
Romania	Local name	Oxid feric (fumuri, pulberi)
Romania	OEL TWA (mg/m³)	5 mg/m³
Romania	OEL STEL (mg/m³)	10 mg/m³
Slovakia	Local name	Oxidy železa, dymy (ako Fe)
Slovakia	NPHV (priemerná) (mg/m³)	1,5 mg/m³ respirabilná frakcia 4 mg/m³ inhalovateľná frakcia
Spain	Local name	Óxido de hierro (III)
Spain	VLA-ED (mg/m³)	5 mg/m³ (polvo y humos), como Fe
Sweden	Local name	Järnoxid (som Fe)
Sweden	nivågränsvärde (NVG) (mg/m³)	3,5 mg/m³ respirabelt damm

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iron oxide (1309-37-1)		
Sweden	Anmärkning (SE)	2 (Med respirabelt damm menas den dammfraction som definieras i svensk standard SS-EN 481, Arbetsplatsluft – Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.11 och som har en provtagningskaraktäristik enligt punkt 5.3)
United Kingdom	Local name	Iron oxide
United Kingdom	WEL TWA (mg/m³)	5 mg/m³ Iron oxide, fume (as Fe); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Rouge total inhalable; 10 mg/m³; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Rouge respirable; 4 mg/m³; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m³)	10 mg/m³ Iron oxide, fume (as Fe); United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
Iceland	Local name	Járnoxíð, sem Fe, örfint ryk
Iceland	OEL (8 hours ref) (mg/m³)	3,5 mg/m³
Norway	Local name	Jern(III)oksid (beregnet som Fe)
Norway	Grenseverdier (AN) (mg/m³)	3 mg/m³
Switzerland	Local name	Eisenoxide
Switzerland	MAK (mg/m³)	3 mg/m³
Switzerland	Remark (CH)	a(mg/m³) - Lungenfib, Lunge - NIOSH, s. 1.8.2
Australia	Local name	Iron oxide fume (Fe2O3) (as Fe)
Australia	TWA (mg/m³)	5 mg/m³
USA - ACGIH	Local name	Iron oxide (Fe O)
USA - ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA - ACGIH	Remark (ACGIH)	Pneumoconiosis
USA - OSHA	Local name	Iron oxide fume
USA - OSHA	OSHA PEL (TWA) (mg/m³)	10 mg/m³
carbon black (1333-86-4)		
Belgium	Local name	Carbone (noir de) # Koolzwart
Belgium	Limit value (mg/m³)	3,5 mg/m³
Croatia	Local name	Ugljik-crni
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	3,5 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	7 mg/m³
Denmark	Local name	Carbon black
Denmark	Grænseværdie (langvarig) (mg/m³)	3,5 mg/m³
Denmark	Anmærkninger (DK)	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Finland	Local name	Nokimusta
Finland	HTP-arvo (8h) (mg/m³)	3,5 mg/m³
Finland	HTP-arvo (15 min)	7 mg/m³
France	Local name	Noir de carbone
France	VME (mg/m³)	3,5 mg/m³
France	Note (FR)	Valeurs recommandées/admises
Greece	OEL TWA (mg/m³)	3,5 mg/m³
Greece	OEL STEL (mg/m³)	7 mg/m³
Ireland	Local name	Carbon black
Ireland	OEL (8 hours ref) (mg/m³)	3 mg/m³ I (Inhalable)
Portugal	Local name	Carbono, preto (Negro de fumo)
Portugal	OEL TWA (mg/m³)	3 mg/m³ I (Fração inalável)
Spain	Local name	Negro de humo
Spain	VLA-ED (mg/m³)	3,5 mg/m³
Sweden	Local name	Kimrök
Sweden	nivågränsvärde (NVG) (mg/m³)	3 mg/m³ totaldamm

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carbon black (1333-86-4)		
Sweden	Anmärkning (SE)	2 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiameteren är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
United Kingdom	Local name	Carbon black
United Kingdom	WEL TWA (mg/m³)	3,5 mg/m³
United Kingdom	WEL STEL (mg/m³)	7 mg/m³
Iceland	Local name	Kolefni
Iceland	OEL (8 hours ref) (mg/m³)	3,5 mg/m³
Norway	Local name	Carbon Black (lampsot)
Norway	Grenseverdier (AN) (mg/m³)	3,5 mg/m³
Australia	Local name	Carbon black
Australia	TWA (mg/m³)	3 mg/m³
USA - ACGIH	Local name	Carbon black
USA - ACGIH	ACGIH TWA (mg/m³)	3 mg/m³
USA - ACGIH	Remark (ACGIH)	Bronchitis
USA - OSHA	Local name	Carbon black
USA - OSHA	OSHA PEL (TWA) (mg/m³)	3,5 mg/m³
Titanium(IV) oxide (13463-67-7)		
EU	Local name	Titanium dioxide
EU	Notes	SCOEL Recommendations (Ongoing)
Austria	Local name	Titandioxid (Alveolarstaub)
Austria	MAK (mg/m³)	5 mg/m³
Austria	MAK Short time value (mg/m³)	10 mg/m³
Belgium	Local name	Titane (dioxyde de) # Titaandioxide
Belgium	Limit value (mg/m³)	10 mg/m³
Bulgaria	Local name	Титанов диоксид
Bulgaria	OEL TWA (mg/m³)	10 mg/m³ респирабилен прах
Croatia	Local name	Titanov dioksid
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³ U (ukupna prašina) 4 mg/m³ R (respirabilna prašina)
Denmark	Local name	Titandioxid
Denmark	Grænseværdie (langvarig) (mg/m³)	6 mg/m³ beregnet som Ti
Estonia	Local name	Titaanoksiid
Estonia	OEL TWA (mg/m³)	5 mg/m³
France	Local name	Titane (dioxyde de), en Ti
France	VME (mg/m³)	10 mg/m³
France	Note (FR)	Valeurs recommandées/admises
Germany	Local name	Titandioxid
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	1,25 mg/m³ A (mg/m3) 10 mg/m³ E (mg/m3)
Germany	Remark (TRGS 900)	AGS,DFG
Greece	OEL TWA (mg/m³)	10 mg/m³
Ireland	Local name	Titanium dioxide
Ireland	OEL (8 hours ref) (mg/m³)	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust
Latvia	Local name	Titānadioksīds
Latvia	OEL TWA (mg/m³)	10 mg/m³
Lithuania	Local name	Titano dioksidas
Lithuania	IPRV (mg/m³)	5 mg/m³
Portugal	Local name	Dióxido de titânio
Portugal	OEL TWA (mg/m³)	10 mg/m³

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Titanium(IV) oxide (13463-67-7)		
Slovakia	Local name	Oxid titaničitý
Slovakia	NPHV (priemerná) (mg/m³)	5 mg/m³
Spain	Local name	Dióxido de titanio
Spain	VLA-ED (mg/m³)	10 mg/m³
Sweden	Local name	Titandioxid
Sweden	nivågränsvärde (NVG) (mg/m³)	5 mg/m³ totaldamm
Sweden	Anmärkning (SE)	2 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagnings av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiameteren är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
United Kingdom	Local name	Titanium dioxide
United Kingdom	WEL TWA (mg/m³)	4 mg/m³ respirable 10 mg/m³ total inhalable
Iceland	Local name	Títandíoxíð, sem Ti
Iceland	OEL (8 hours ref) (mg/m³)	6 mg/m³
Norway	Local name	Titandioksid
Norway	Grenseverdier (AN) (mg/m³)	5 mg/m³
Switzerland	Local name	Titandioxid
Switzerland	MAK (mg/m³)	3 mg/m³
Switzerland	Remark (CH)	a(mg/m³) - SS _C - UAW - NIOSH, s. 1.8.2
Australia	Local name	Titanium dioxide
Australia	TWA (mg/m³)	10 mg/m³
Australia	Remark (AU)	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
USA - ACGIH	Local name	Titanium dioxide
USA - ACGIH	ACGIH TWA (mg/m³)	1 mg/m³
USA - ACGIH	Remark (ACGIH)	LRT irr; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
USA - OSHA	Local name	Titanium dioxide (Total dust)
USA - OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Safety glasses. Protective clothing.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Paste.
Colour	: Various.
Odour	: odourless.
Odour threshold	: No data available
pH	: 8 - 9
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 99 °C
Flash point	: > 525 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,08 - 1,3
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
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Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

1,2-propanediol (57-55-6)	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
polyacrylic acid (9003-01-4)	
LD50 oral rat	2500 mg/kg (Rat; Literature study)
barium sulfate (7727-43-7)	
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
C.I. pigment blue 15 (147-14-8)	
LD50 oral rat	> 6400 mg/kg (Rat)
iron oxide (1309-37-1)	
LD50 oral rat	> 5000 mg/kg (Rat; Literature study)
carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)
Titanium(IV) oxide (13463-67-7)	
LD50 oral rat	> 10000 mg/kg (Rat; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure; Experimental value; > 5000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	> 6,8 mg/l/4h (Rat; Experimental value)

Skin corrosion/irritation : Not classified
pH: 8 - 9
Serious eye damage/irritation : Not classified
pH: 8 - 9
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

1,2-propanediol (57-55-6)	
LC50 fish 2	51600 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss)
EC50 Daphnia 1	34400 mg/l (EC50; 48 h)
polyacrylic acid (9003-01-4)	
LC50 fish 1	580 - 2000 mg/l (LC50; 96 h; Lepomis macrochirus)
EC50 Daphnia 1	168 - 280 mg/l (LC50; 96 h; Daphnia magna)
barium sulfate (7727-43-7)	
EC50 Daphnia 1	32 mg/l (EC50; 48 h)
Threshold limit algae 1	≥1.92,NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value
C.I. pigment blue 15 (147-14-8)	
LC50 fish 2	> 500 mg/l (LC50; 96 h)

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iron oxide (1309-37-1)	
LC50 fish 1	> 1000 mg/l (LC50; 48 h)
carbon black (1333-86-4)	
LC50 fish 1	> 1000 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
LC50 fish 2	1000 mg/l (LC0; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)
EC50 Daphnia 1	> 5600 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 24 h; Daphnia magna; Static system; Fresh water)
Threshold limit algae 1	> 10000 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Scenedesmus subspicatus; Static system; Fresh water; Experimental value)
Titanium(IV) oxide (13463-67-7)	
EC50 Daphnia 1	> 100 mg/l (LC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Weight of evidence)
Threshold limit algae 1	61 mg/l (EC50; Other; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

12.2. Persistence and degradability

1,2-propanediol (57-55-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil.
Biochemical oxygen demand (BOD)	0,96 - 1,08 g O ₂ /g substance
Chemical oxygen demand (COD)	1,63 g O ₂ /g substance
ThOD	1,69 g O ₂ /g substance
BOD (% of ThOD)	0,57
polyacrylic acid (9003-01-4)	
Persistence and degradability	Biodegradability in water: no data available. No (test)data available on mobility of the substance.
barium sulfate (7727-43-7)	
Persistence and degradability	Biodegradability: Not applicable. No (test)data available on mobility of the substance.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
C.I. pigment blue 15 (147-14-8)	
Persistence and degradability	Not readily biodegradable in water. Not degradable in the soil.
iron oxide (1309-37-1)	
Persistence and degradability	Biodegradability: Not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
carbon black (1333-86-4)	
Persistence and degradability	Biodegradability: Not applicable. Biodegradability in soil: Not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Titanium(IV) oxide (13463-67-7)	
Persistence and degradability	Biodegradability: Not applicable. Low potential for Mobility in soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

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1,2-propanediol (57-55-6)				
Log Pow	-1,41 - -0,30 (-0.92; Experimental value; -1.07; Experimental value; Equivalent or similar to OECD 107; 20.5 °C)			
Bioaccumulative potential	Not bioaccumulative.			
polyacrylic acid (9003-01-4)				
Bioaccumulative potential	Bioaccumulation: No data available.			
barium sulfate (7727-43-7)				
BCF fish 1	68,4 (BCF; Lepomis macrochirus)			
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).			
C.I. pigment blue 15 (147-14-8)				
BCF fish 1	< 11 (BCF)			
Log Pow	6,6			
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).			
iron oxide (1309-37-1)				
Bioaccumulative potential	Bioaccumulation: No data available.			
carbon black (1333-86-4)				
Bioaccumulative potential	Not bioaccumulative.			
Titanium(IV) oxide (13463-67-7)				
Bioaccumulative potential	Not bioaccumulative.			
12.4. Mobility in soil				
1,2-propanediol (57-55-6)				
Surface tension	0,036 N/m (25 °C)			
carbon black (1333-86-4)				
Ecology - soil	Not toxic to plants. Not toxic to animals.			
12.5. Results of PBT and vPvB assessment				
No additional information available				
12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.			
Ecology - waste materials	: Avoid release to the environment.			
SECTION 14: Transport information				
In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				
14.6. Special precautions for user				
- Overland transport				
Not regulated				
- Transport by sea				
Not regulated				
- Air transport				
Not regulated				

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- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference	: Water hazard class (WGK) 3, severe hazard to waters (Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4))
Storage class (LGK)	: LGK 10 - Combustible liquids
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

Denmark

Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal
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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.