

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

1.1. Product identifier

Product form : Mixture
 Product name : Derwent Academy Soft Pastel -24 ct
 Product code : 98216

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

1.2.1. Relevant identified uses

No additional information available

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
calcium carbonate substance with national workplace exposure limit(s) (BE, FR, GB, LV, PL)	(CAS-No.) 471-34-1 (EC-No.) 207-439-9	30 - 80	Not classified

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

kaolin substance with national workplace exposure limit(s) (BE, BG, DK, ES, FI, FR, GB, IE, PT)	(CAS-No.) 1332-58-7 (EC-No.) 310-194-1	15 - 50	Not classified
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	0,5 - 15	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	0,1 - 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
C.I. Pigment Blue 15.3 substance with national workplace exposure limit(s) (LT, LV)	(CAS-No.) 147-14-8 (EC-No.) 205-685-1 (REACH-no) 01-2119458771-32-XXXX	0,1 - 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 - 5	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
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 : Not expected to present a significant hazard under anticipated conditions of normal use.

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 : Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

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.

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.

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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product.
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.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

kaolin (1332-58-7)		
Belgium	Local name	Kaolin (fraction alvéolaire) # Kaolin (fraction alvéolaire)
Belgium	Limit value (mg/m ³)	2 mg/m ³
Bulgaria	Local name	Каолин, съдържащ под 2 % свободен кристален силициев диоксид в респирабилната фракция
Bulgaria	OEL TWA (mg/m ³)	3 mg/m ³ Респирабилна фракция 6 mg/m ³ Инхалабилна фракция
Croatia	Local name	Kaolin
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	2 mg/m ³ R (respirabilna prašina)
Denmark	Local name	Kaolin
Denmark	Grænseværdie (langvarig) (mg/m ³)	2 mg/m ³ respirabel
Finland	Local name	Kaoliini
Finland	HTP-arvo (8h) (mg/m ³)	2 mg/m ³
Finland	Huomautus (FI)	alveolijae
France	VME (mg/m ³)	10 mg/m ³ (Kaolin; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Ireland	Local name	Kaolin, respirable dust
Ireland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Portugal	Local name	Caulino
Portugal	OEL TWA (mg/m ³)	2 mg/m ³ E (O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina), R (Fração respirável)
Spain	Local name	Caolín
Spain	VLA-ED (mg/m ³)	2 mg/m ³ Fracción respirable
Spain	Notes	d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles), e (Este valor es para la materia particulada que no contenga amianto y menos de un 1% de sílice cristalina).
United Kingdom	Local name	Kaolin
United Kingdom	WEL TWA (mg/m ³)	2 mg/m ³ respirable dust
Iceland	Local name	Kaolín, örfint ryk
Iceland	OEL (8 hours ref) (mg/m ³)	2 mg/m ³
Switzerland	Local name	Kaolin
Switzerland	MAK (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	a(mg/m ³) - Lungenfib ^{KT} - bei evtl. Gehalt an Quarz ist die entsprechende MAK zu berücksichtigen
Australia	Local name	Kaolin
Australia	TWA (mg/m ³)	10 mg/m ³
Australia	Remark (AU)	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
USA - ACGIH	Local name	Kaolin
USA - ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
USA - ACGIH	Remark (ACGIH)	Pneumoconiosis
calcium carbonate (471-34-1)		
Belgium	Limit value (mg/m ³)	10 mg/m ³ (Calcium (carbonate de); Belgium; Time-weighted average exposure limit 8 h)
France	Local name	Carbonate de calcium (Calcite) (Marbre)
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	Valeurs recommandées/admises
Latvia	Local name	Kalcijakarbonāts

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calcium carbonate (471-34-1)		
Latvia	OEL TWA (mg/m ³)	6 mg/m ³
Poland	Local name	Węglan wapnia pyły 10)
Poland	NDS (mg/m ³)	10 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ Calcium carbonate inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Calcium carbonate respirable dust; 4 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
Switzerland	Local name	Calciumcarbonat
Switzerland	MAK (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	a(mg/m ³) - NIOSH, s. 1.8.2
Australia	Local name	Calcium carbonate
Australia	TWA (mg/m ³)	10 mg/m ³ Synonym (Limestone; Marble; Whiting)
Australia	Remark (AU)	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
iron hydroxide oxide yellow (51274-00-1)		
Austria	Local name	Eisenoxide
Austria	MAK (mg/m ³)	5 mg/m ³
Austria	MAK Short time value (mg/m ³)	10 mg/m ³
Belgium	Local name	Fer (trioxyde de) (fumées) (en Fe) # IJzeroxide (rook) (Fe2O3) (als Fe)
Belgium	Limit value (mg/m ³)	5 mg/m ³
Belgium	Limit value (ppm)	2 ppm
Bulgaria	Local name	Желязо оксиди
Bulgaria	OEL TWA (mg/m ³)	5 mg/m ³ като желязо
Croatia	Local name	Željezov (III) oksid, dim (kao Fe)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	5 mg/m ³ 10 mg/m ³ U (ukupna prašina) 4 mg/m ³ R (respirabilna prašina)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³
Denmark	Local name	Jernoxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	3,5 mg/m ³ beregnet som Fe
Estonia	Local name	Raudoksiid, peentolm (arvutatud rauale)
Estonia	OEL TWA (mg/m ³)	3,5 mg/m ³
Finland	Local name	Rautaoksidi, huurut
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Finland	Huomautus (FI)	Fe
France	Local name	Trioxyde de difer
France	VME (mg/m ³)	5 mg/m ³ (fumées, en Fe)
France	Note (FR)	Valeurs recommandées/admises
Greece	OEL TWA (mg/m ³)	10 mg/m ³
Greece	OEL STEL (mg/m ³)	10 mg/m ³
Hungary	Local name	VAS(III)-OXID (Fe-ra számítva)
Hungary	AK-érték	6 mg/m ³
Ireland	Local name	Iron salts (as Fe)
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	2 mg/m ³
Lithuania	Local name	Geležies oksidas
Lithuania	IPRV (mg/m ³)	3,5 mg/m ³ (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/m ³)	5 mg/m ³
Poland	NDSch (mg/m ³)	10 mg/m ³
Portugal	Local name	Óxido de ferro

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iron hydroxide oxide yellow (51274-00-1)		
Portugal	OEL TWA (mg/m ³)	5 mg/m ³ R (Fração respirável)
Romania	Local name	Oxid feric (fumuri, pulberi)
Romania	OEL TWA (mg/m ³)	5 mg/m ³
Romania	OEL STEL (mg/m ³)	10 mg/m ³
Slovakia	Local name	Oxidy železa, dymy (ako Fe)
Slovakia	NPHV (priemerná) (mg/m ³)	1,5 mg/m ³ respirabilná frakcia 4 mg/m ³ inhalovateľná frakcia
Spain	Local name	Óxido de hierro (III)
Spain	VLA-ED (mg/m ³)	5 mg/m ³ (polvo y humos), como Fe
Sweden	Local name	Järnoxid (som Fe)
Sweden	nivågränsvärde (NVG) (mg/m ³)	3,5 mg/m ³ 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/m ³)	1 mg/m ³ (as Fe)
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³ (as Fe)
Iceland	Local name	Járnoxíð, sem Fe, örfínt ryk
Iceland	OEL (8 hours ref) (mg/m ³)	3,5 mg/m ³
Norway	Local name	Jern(III)oksid (beregnet som Fe)
Norway	Grenseverdier (AN) (mg/m ³)	3 mg/m ³
Switzerland	Local name	Eisenoxide
Switzerland	MAK (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	a(mg/m ³) - Lungenfib, Lunge - NIOSH, s. 1.8.2
Australia	Local name	Iron salts, soluble (as Fe)
Australia	TWA (mg/m ³)	1 mg/m ³
USA - ACGIH	Local name	Iron oxide (Fe O)
USA - ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
USA - ACGIH	Remark (ACGIH)	Pneumoconiosis
USA - OSHA	Local name	Iron oxide fume
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	10 mg/m ³
C.I. Pigment Blue 15.3 (147-14-8)		
Latvia	Local name	Varaftalocianīns
Latvia	OEL TWA (mg/m ³)	5 mg/m ³
Lithuania	Local name	Vario ftalocianinas
Lithuania	IPRV (mg/m ³)	5 mg/m ³
iron oxide (1309-37-1)		
Austria	Local name	Eisenoxide
Austria	MAK (mg/m ³)	5 mg/m ³
Austria	MAK Short time value (mg/m ³)	10 mg/m ³
Belgium	Local name	Fer (trioxyde de) (fumées) (en Fe) # IJzeroxide (rook) (Fe ₂ O ₃) (als Fe)
Belgium	Limit value (mg/m ³)	5 mg/m ³
Bulgaria	Local name	Желязо оксиди
Bulgaria	OEL TWA (mg/m ³)	5 mg/m ³ като желязо
Croatia	Local name	Željezov (III) oksid, dim (kao Fe)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	5 mg/m ³ 10 mg/m ³ U (ukupna prašina) 4 mg/m ³ R (respirabilna prašina)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³
Denmark	Local name	Jernoxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	3,5 mg/m ³ beregnet som Fe
Estonia	Local name	Raudoksiid, peentolm (arvutatud rauale)

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iron oxide (1309-37-1)		
Estonia	OEL TWA (mg/m ³)	3,5 mg/m ³
Finland	Local name	Rautaoksidi, huurut
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Finland	Huomautus (FI)	Fe
France	Local name	Trioxyde de fer
France	VME (mg/m ³)	5 mg/m ³ (fumées, en Fe)
France	Note (FR)	Valeurs recommandées/admises
Greece	OEL TWA (mg/m ³)	10 mg/m ³
Greece	OEL STEL (mg/m ³)	10 mg/m ³
Hungary	Local name	VAS(III)-OXID (Fe-ra számítva)
Hungary	AK-érték	6 mg/m ³
Ireland	Local name	Iron oxide, fume (as Fe)
Ireland	OEL (8 hours ref) (mg/m ³)	5 mg/m ³ 10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Ireland	OEL (15 min ref) (mg/m ³)	10 mg/m ³
Lithuania	Local name	Geležies oksidas
Lithuania	IPRV (mg/m ³)	3,5 mg/m ³ (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/m ³)	5 mg/m ³
Poland	NDSch (mg/m ³)	10 mg/m ³
Portugal	Local name	Óxido de ferro
Portugal	OEL TWA (mg/m ³)	5 mg/m ³ R (Fração respirável)
Romania	Local name	Oxid feric (fumuri, pulberi)
Romania	OEL TWA (mg/m ³)	5 mg/m ³
Romania	OEL STEL (mg/m ³)	10 mg/m ³
Slovakia	Local name	Oxidy železa, dymy (ako Fe)
Slovakia	NPHV (priemerná) (mg/m ³)	1,5 mg/m ³ respirabilná frakcia 4 mg/m ³ inhalovateľná frakcia
Spain	Local name	Óxido de hierro (III)
Spain	VLA-ED (mg/m ³)	5 mg/m ³ (polvo y humos), como Fe
Sweden	Local name	Järnoxid (som Fe)
Sweden	nivågränsvärde (NVG) (mg/m ³)	3,5 mg/m ³ 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 oxide
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³ Iron oxide, fume (as Fe); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Rouge total inhalable; 10 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Rouge respirable; 4 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³ 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/m ³)	3,5 mg/m ³
Norway	Local name	Jern(III)oksid (beregnet som Fe)
Norway	Grenseverdier (AN) (mg/m ³)	3 mg/m ³
Switzerland	Local name	Eisenoxide

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iron oxide (1309-37-1)		
Switzerland	MAK (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	a(mg/m ³) - Lungenfib, Lunge - NIOSH, s. 1.8.2
Australia	Local name	Iron oxide fume (Fe ₂ O ₃) (as Fe)
Australia	TWA (mg/m ³)	5 mg/m ³
USA - ACGIH	Local name	Iron oxide (Fe O)
USA - ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
USA - ACGIH	Remark (ACGIH)	Pneumoconiosis
USA - OSHA	Local name	Iron oxide fume
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	10 mg/m ³
carbon black (1333-86-4)		
Belgium	Local name	Carbone (noir de) # Koolzwart
Belgium	Limit value (mg/m ³)	3,5 mg/m ³
Croatia	Local name	Ugljik-crni
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	3,5 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	7 mg/m ³
Denmark	Local name	Carbon black
Denmark	Grænseværdie (langvarig) (mg/m ³)	3,5 mg/m ³
Denmark	Anmærkninger (DK)	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Finland	Local name	Nokimusta
Finland	HTP-arvo (8h) (mg/m ³)	3,5 mg/m ³
Finland	HTP-arvo (15 min)	7 mg/m ³
France	Local name	Noir de carbone
France	VME (mg/m ³)	3,5 mg/m ³
France	Note (FR)	Valeurs recommandées/admises
Greece	OEL TWA (mg/m ³)	3,5 mg/m ³
Greece	OEL STEL (mg/m ³)	7 mg/m ³
Ireland	Local name	Carbon black
Ireland	OEL (8 hours ref) (mg/m ³)	3 mg/m ³ I (Inhalable)
Portugal	Local name	Carbono, preto (Negro de fumo)
Portugal	OEL TWA (mg/m ³)	3 mg/m ³ I (Fração inalável)
Spain	Local name	Negro de humo
Spain	VLA-ED (mg/m ³)	3,5 mg/m ³
Sweden	Local name	Kimrök
Sweden	nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³ 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. Filterdiametern 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/m ³)	3,5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	7 mg/m ³
Iceland	Local name	Kolefni
Iceland	OEL (8 hours ref) (mg/m ³)	3,5 mg/m ³
Norway	Local name	Carbon Black (lampesot)
Norway	Grenseverdier (AN) (mg/m ³)	3,5 mg/m ³
Australia	Local name	Carbon black
Australia	TWA (mg/m ³)	3 mg/m ³
USA - ACGIH	Local name	Carbon black
USA - ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³
USA - ACGIH	Remark (ACGIH)	Bronchitis

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carbon black (1333-86-4)		
USA - OSHA	Local name	Carbon black
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	3,5 mg/m ³
Titanium(IV) oxide (13463-67-7)		
EU	Local name	Titanium dioxide
EU	Notes	SCOEL Recommendations (Ongoing)
Austria	Local name	Titandioxid (Alveolarstaub)
Austria	MAK (mg/m ³)	5 mg/m ³
Austria	MAK Short time value (mg/m ³)	10 mg/m ³
Belgium	Local name	Titane (dioxyde de) # Titaandioxide
Belgium	Limit value (mg/m ³)	10 mg/m ³
Bulgaria	Local name	Титанов диоксид
Bulgaria	OEL TWA (mg/m ³)	10 mg/m ³ респирабилен прах
Croatia	Local name	Titanov dioksid
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³ U (ukupna prašina) 4 mg/m ³ R (respirabilna prašina)
Denmark	Local name	Titandioxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	6 mg/m ³ beregnet som Ti
Estonia	Local name	Titaanoksiid
Estonia	OEL TWA (mg/m ³)	5 mg/m ³
France	Local name	Titane (dioxyde de), en Ti
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	Valeurs recommandées/admises
Germany	Local name	Titandioxid
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1,25 mg/m ³ A (mg/m ³) 10 mg/m ³ E (mg/m ³)
Germany	Remark (TRGS 900)	AGS,DFG
Greece	OEL TWA (mg/m ³)	10 mg/m ³
Ireland	Local name	Titanium dioxide
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Latvia	Local name	Titānadioksīds
Latvia	OEL TWA (mg/m ³)	10 mg/m ³
Lithuania	Local name	Titano dioksidas
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Portugal	Local name	Dióxido de titânio
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Slovakia	Local name	Oxid titaničitý
Slovakia	NPHV (priemerná) (mg/m ³)	5 mg/m ³
Spain	Local name	Dióxido de titanio
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Sweden	Local name	Titandioxid
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ 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. Filterdiametern 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/m ³)	4 mg/m ³ respirable 10 mg/m ³ total inhalable
Iceland	Local name	Títandíoxíð, sem Ti
Iceland	OEL (8 hours ref) (mg/m ³)	6 mg/m ³
Norway	Local name	Titandioksid

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Titanium(IV) oxide (13463-67-7)		
Norway	Grønseverdier (AN) (mg/m ³)	5 mg/m ³
Switzerland	Local name	Titandioxid
Switzerland	MAK (mg/m ³)	3 mg/m ³
Switzerland	Remark (CH)	a(mg/m ³) - SS _C - UAW - NIOSH, s. 1.8.2
Australia	Local name	Titanium dioxide
Australia	TWA (mg/m ³)	10 mg/m ³
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/m ³)	1 mg/m ³
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/m ³)	15 mg/m ³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

In case of repeated or prolonged contact wear gloves

Eye protection:

Where eye contact may occur from use, Wear eye protection

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

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	: Solid
Colour	: Various.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available

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Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

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

calcium carbonate (471-34-1)	
LD50 oral rat	6450 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Literature study; >2000 mg/kg; Rat; Experimental value)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	> 3 mg/l/4h (Rat; Experimental value)

C.I. Pigment Blue 15.3 (147-14-8)	
LD50 oral rat	> 5000 mg/kg

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
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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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

calcium carbonate (471-34-1)

EC50 Daphnia 1 > 100 % (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)

Threshold limit algae 1 > 14 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)

C.I. Pigment Blue 15.3 (147-14-8)

LC50 fish 2 > 500 mg/l (LC50; 96 h)

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

kaolin (1332-58-7)

Persistence and degradability Biodegradability: Not applicable.

Biochemical oxygen demand (BOD) Not applicable

Chemical oxygen demand (COD) Not applicable

ThOD Not applicable

calcium carbonate (471-34-1)

Persistence and degradability Biodegradability: Not applicable. Biodegradability in soil: Not applicable. Adsorbs into the soil.

ThOD Not applicable

C.I. Pigment Blue 15.3 (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

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carbon black (1333-86-4)	
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

kaolin (1332-58-7)	
Bioaccumulative potential	Bioaccumulation: No data available.

calcium carbonate (471-34-1)	
Log Pow	-2,12 (Estimated value)
Bioaccumulative potential	Bioaccumulation: Not applicable.

C.I. Pigment Blue 15.3 (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

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				

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14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- 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 13 - Non-combustible solids

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 : kaolin is listed

SZW-lijst van mutagene stoffen : kaolin is 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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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.