

SAFETY DATA SHEET

TESSAROL DIRECT 3in1 RAL----



Version 2.0 Revision Date: 08.03.2024 SDS Number: MAT0GA00_104
GE/EN Date of last issue: 18.01.2024 Date of first issue: 28.11.2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : TESSAROL DIRECT 3in1 RAL----

Manufacturer or supplier's details

Details of the supplier of the safety data sheet

Company : Helios TBLUS d.o.o.
Količevo 65
Domžale 1230
Slovenia

Telephone : 386 (1) 722 4383
Telefax : 386 (1) 722 4310
E-mail address Responsible/issuing person : 386 (1) 722 4383
productsafety@helios.si

Emergency telephone number

Recommended use of the chemical and restrictions on use

Recommended use : Roller application or brushing
Non industrial spraying
Coatings and paints, thinners, paint removers
Restrictions on use : Professional and consumer use of coatings

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

GHS-Labeling

Hazard pictograms :



Signal word : Warning

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Hazard statements	: H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.
	Prevention: P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response: P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
	Storage: P405 Store locked up.
	Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Components

Chemical name	CAS-No.	Classification	MAC value mg/m3 / TSEL value	Concentration (% w/w)
hydrocarbons, C9-C11, n-	64742-48-9	Flam. Liq.3;	No data available	>= 20 - < 30

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alkanes, isoalkanes, cyclic, <2% aromatics		H226 STOT SE3; H336 (Central nervous system) Asp. Tox.1; H304		
titanium dioxide	13463-67-7		MPC-TWA: 10 mg/m ³ aerosols of predominantly fibrogenic action, Class 4 - Low hazard Data Source: RU OEL	>= 10 - < 20
Kaolin	1332-58-7		MPC-TWA: 8 mg/m ³ aerosols of predominantly fibrogenic action, Class 3 - Moderately dangerous Data Source: RU OEL	>= 1 - < 10
1-methoxy-2-propanol	107-98-2	Flam. Liq.3; H226 Acute Tox.5; H303 Acute Tox.5; H313 STOT SE3; H336 (Central nervous system)	No data available	>= 1 - < 10
Talc	14807-96-6		No data available	>= 1 - < 10
2-methoxy-1-methylethyl acetate	108-65-6	Flam. Liq.3; H226 Acute Tox.5; H303 Acute Tox.5; H313 STOT SE3; H336 (Central nervous system)	MPC-STEL: 10 mg/m ³ Class 4 - Low hazard Data Source: RU OEL	>= 1 - < 10
mixture of sterically composed sebacates	1065336-91-5	Skin Sens.1; H317 Repr.2; H361 Aquatic Acute1; H400	No data available	>= 0,25 - < 1

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		Aquatic Chronic1; H410		
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For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
- Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Flammable properties

- Flash point : 40 °C
- Flammability (solid, gas) : Static-accumulating flammable liquid.
- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated

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place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
titanium dioxide	13463-67-7	MPC-TWA (aerosol)	10 mg/m ³	RU OEL
	Further information: aerosols of predominantly fibrogenic action, Class 4 - Low hazard			
Kaolin	1332-58-7	MPC-TWA (aerosol)	8 mg/m ³	RU OEL
	Further information: aerosols of predominantly fibrogenic action, Class 3 - Moderately dangerous			
		TWA (Respirable dust)	0,1 mg/m ³	2004/37/EC
1-methoxy-2-propanol	107-98-2	TWA	100 ppm 375 mg/m ³	2000/39/EC
		STEL	150 ppm 568 mg/m ³	2000/39/EC
Talc	14807-96-6	TWA (Respirable dust)	0,1 mg/m ³	2004/37/EC
2-methoxy-1-methylethyl acetate	108-65-6	MPC-STEL (vapour and/or gas)	10 mg/m ³	RU OEL
	Further information: Class 4 - Low hazard			
		STEL	100 ppm 550 mg/m ³	2000/39/EC
		TWA	50 ppm 275 mg/m ³	2000/39/EC

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type : Combined particulates and organic vapour type
Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local condi-

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Eye protection	:	tions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Equipment should conform to EN 166 Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Protective measures	:	Wash thoroughly after handling. Avoid contact with skin, eyes and clothing. Keep away from food, drink and animal feedingstuffs.
Hygiene measures	:	Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	in accordance with the product description
Odour	:	solvent-like
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	< 0,0 °C (calculation method (principal components, lowest value))
Boiling point/boiling range	:	155 - 192 °C (calculation method (principal components, lowest value))
Flash point	:	40 °C (calculation method (principal components, lowest value))
Flammability (solid, gas)	:	Static-accumulating flammable liquid., Combustible Solids
Vapour pressure	:	2 hPa
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1,10 - 1,20 g/cm ³
Solubility(ies)	:	
Water solubility	:	insoluble
Solubility in other solvents	:	Description: miscible with most organic solvents
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire condi-

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tions.

Viscosity
Viscosity, kinematic : > 20,5 mm²/s (40 °C)

Flow time : > 40 s (23 °C)
Cross section: 6 mm
Method: ISO 2431

Explosive properties : Not applicable

Oxidizing properties : Sustains combustion

VOC : (Directive 2004/42/EC)
500 g/l

10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.
Incompatible materials : Not applicable
Hazardous decomposition products : No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.
Not classified due to lack of data.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5.000 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg
Method: Calculation method

Components:

1-methoxy-2-propanol:

Acute oral toxicity : LD50 Oral (Rabbit): > 2.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): > > 2.000 mg/kg

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Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Test atmosphere: vapour

LC0 (Rat): 2000 ppm
Exposure time: 3 h

Acute dermal toxicity : LD50 (Rabbit): > > 2.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.
Not classified due to lack of data.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Not classified based on available information.
Not classified due to lack of data.

Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

Components:

mixture of sterically composed sebacates:

Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.
Not classified due to lack of data.

Carcinogenicity

Not classified based on available information.

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Not classified due to lack of data.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.
Suspected of damaging fertility or the unborn child.

Components:

mixture of sterically composed sebacates:

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility ,based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.
May cause drowsiness or dizziness.

Components:

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:

Assessment : May cause drowsiness or dizziness.

1-methoxy-2-propanol:

Assessment : May cause drowsiness or dizziness.

2-methoxy-1-methylethyl acetate:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.
Not classified due to lack of data.

Aspiration toxicity

Not classified based on available information.
Not classified due to lack of data.

Components:

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

1-methoxy-2-propanol:

Toxicity to fish : LC50 (Fish): > 1.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia (water flea)): > 1.000 mg/l
aquatic invertebrates

Toxicity to algae/aquatic : LC50 (algae): > 1.000 mg/l
plants

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l
Exposure time: 96 h

NOEC : 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC50: 408 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to fish (Chronic tox- : EC10: 47,5 mg/l
icity)

mixture of sterically composed sebacates:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

2-methoxy-1-methylethyl acetate:

Biodegradability : Remarks: Readily biodegradable.

Bioaccumulative potential

Components:

1-methoxy-2-propanol:

Partition coefficient: n- : log Pow: -0,437
octanol/water

2-methoxy-1-methylethyl acetate:

Partition coefficient: n- : log Pow: 1,2 (20 °C)
octanol/water pH: 6,8

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mixture of sterically composed sebacates:

Partition coefficient: n-octanol/water : log Pow: 2,37 - 2,77
pH: 7

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

Hygienic standards:

(Allowable concentration in air, water, including fishery waters, soil)

Components	Air	Water	Soil	Data Source
titanium dioxide 13463-67-7	TSEL: 0,5 mg/m ³	MPC: 1 Milligrams per cubed decimeter (the substance) Limiting health hazard indicator: toxic Hazard class: 4 MPC: 0,06 Milligrams per cubed decimeter (Titanium) Limiting health hazard indicator: toxic Hazard class: 4	No data available	List 2 List 5
1-methoxy-2-propanol 107-98-2	TSEL: 0,5 mg/m ³	No data available	No data available	List 2
Talc 14807-96-6	TSEL: 0,5 mg/m ³	TSEL: 0,25 mg/l Limiting health hazard indicator: organoleptic; increases the turbidity of the water Hazard class: Class 4 - low hazard	No data available	List 2 List 3
2-methoxy-1-methylethyl acetate 108-65-6	MPC - maximum: 0,5 mg/m ³ Limiting health hazard indicator: reflective	No data available	No data available	List 1

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	Hazard class: Class 4 - low hazard			
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For explanation of abbreviations see section 16.

13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

- UN number : UN 1263
Proper shipping name : PAINT
Class : 3
Packing group : III
Labels : 3
Environmentally hazardous : no

IATA-DGR

- UN/ID No. : UN 1263
Proper shipping name : Paint
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

- UN number : UN 1263
Proper shipping name : PAINT
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

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

Not applicable for product as supplied.

Special precautions for user

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Remarks : Packages smaller than or equal to 450 litres, not goods/merchandise of Class 3 (exemption ADR 2.2.3.1.5)
Packages smaller than or equal to 450 litres, not goods/merchandise of Class 3; "transport acc. IMDG-code 2.3.2.5"

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Full text of H-Statements

H226	Flammable liquid and vapour.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
RU OEL	: SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table 2.17 Maximum permissible concentrations (MPC) in the air of the working area
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2004/37/EC / TWA	: Long term exposure limit
RU OEL / MPC-STEL	: Maximum Permissible Concentration - Short Term Exposure
RU OEL / MPC-TWA	: Maximum Permissible Concentration - Time Weighted Average
List 1	: SanPiN 1.2.3685-21 Table 1.1, Table 1.10, & Table 1.11 Max-

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- imum permissible concentration (MPC) in the air of urban and rural settlements
- List 2 : SanPiN 1.2.3685-21 Table 1.2, Table 1.12 & Table 1.13 Tentative Safe Exposure Levels (TSEL) in the air of urban and rural settlements
- List 3 : SanPiN 1.2.3685-21 Table 3.14 & Table 3.18 Indicative permissible levels (TAC) of chemicals in the water of drinking systems of centralized, including hot, and non-centralized water supply, water of ground and surface water bodies of drinking and cultural and domestic water use, water of swimming pools, water parks
- List 5 : Order of the Russian Federal Fisheries Agency "Standards of maximum permissible concentrations of harmful substances in fishery water bodies"

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Material codes (bulk) for
which the SDS is valid

400677; 401630; 401631; 401632; 401633; 401634; 401635;
401638; 401703; 401704; 401705; 401706; 401707; 401791;
401796; 401797