

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ULTRASTAR UV FP-8220 Silver

Version 4.0 Revision Date: 30.08.2018 SDS Number: 102000002473 Print Date: 20.11.2018
Date of first issue: 27.08.2015

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

1.1 Product identifier

Trade name : ULTRASTAR UV FP-8220 Silver
Product code : 052466U30

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH
Guentersthal 4
91235 Hartenstein

Telephone : +499152770

Telefax : +499152777008

E-mail address of person responsible for the SDS : msds.eckart@altana.com

1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
From outside US : (001) 352-323-3500
(First call in English, response in your language is possible)
US & Canada (toll free) : 1-800-5355-053

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. Response: P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

hexane-1,6-diol diacrylate
Propylidynetrimethanol, ethoxylated, esters with acrylic acid
Epoxy acrylate
Glycerol, propoxylated, esters with acrylic acid
Propoxyliertes Neopentylglykoldiacrylat
2-ethylhexyl acrylate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
hexane-1,6-diol diacrylate	13048-33-4 235-921-9 607-109-00-8	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317	>= 25 - < 50

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	01-2119484737-22	Aquatic Chronic 3; H412	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5500-066-5 01-2119489900-30	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 20 - < 25
Epoxy acrylate	55818-57-0 01-2119490020-53	Skin Sens. 1; H317	>= 10 - < 20
2-hydroxy-2- methylpropiophenone	7473-98-5 231-272-0 01-2119472306-39	Acute Tox. 4; H302 Aquatic Chronic 3; H412	>= 2,5 - < 10
polyester acrylate oligomer	223463-47-6	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 10
aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228	>= 1 - < 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1500-114-5 01-2119487948-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10
Propoxyliertes Neopentylglykoldiacrylat	84170-74-1 01-2119970213-43	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0,25 - < 1
2-hydroxy-1-(4-(4-(2-hydroxy-2- methylpropionyl)benzyl)phenyl)- 2-methylpropan-1-one	474510-57-1444-860-9 606-140-00-4 01-2119904050-59	STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
2-ethylhexyl acrylate	103-11-7 203-080-7 607-107-00-7 01-2119453158-37	Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335	>= 0,1 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- If inhaled : If unconscious, place in recovery position and seek medical
advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

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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.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

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.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : 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.
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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

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

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis (Version Date)
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2-ethylhexyl acrylate	103-11-7	MV	10 ppm 82 mg/m ³	SI OEL (2007-06-15)
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Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
aluminium powder (stabilised)	7429-90-5	Aluminium (Aluminium): 200 µg/l (Urine)	End of shift	SI BAT

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
hexane-1,6-diol diacrylate	Workers	Inhalation	long term – systemic effects	24,48 mg/m ³
	Workers	Skin contact	long term – systemic effects	2,77 mg/kg
	Consumers	Ingestion	long term – systemic effects	2,08 mg/kg
	Consumers	Skin contact	long term – systemic effects	1,66 mg/kg
	Consumers	Inhalation	long term – systemic effects	7,24 mg/m ³
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Workers	Skin contact	long term – systemic effects	0,8 mg/kg
	Workers	Inhalation	long term – systemic effects	16,2 mg/m ³
	Consumers	Skin contact	long term – systemic effects	0,5 mg/kg
	Consumers	Inhalation	long term – systemic effects	4,9 mg/m ³
	Consumers	Ingestion	long term – systemic effects	1,4 mg/kg
Epoxy acrylate	Workers	Skin contact	long term – systemic effects	33 mg/kg
	Workers	Inhalation	long term – systemic effects	1,17 mg/m ³
	Consumers	Inhalation	long term – systemic effects	0,29 mg/m ³
	Consumers	Skin contact	long term – systemic effects	16,67 mg/kg
	Consumers	Oral	long term – systemic effects	0,17 mg/kg
2-hydroxy-2-methylpropiophenone	Workers	Skin contact	long term – systemic effects	1,25 mg/kg
	Workers	Inhalation	long term – systemic effects	3,5 mg/m ³

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aluminium powder (stabilised)	Workers	Inhalation	long term – local effects	3,72 mg/m ³
	Consumers	Oral	long term – systemic effects	3,95 mg/kg
Glycerol, propoxylated, esters with acrylic acid	Workers	Skin contact	long term – systemic effects	1,92 mg/kg
	Workers	Inhalation	long term – systemic effects	16,22 mg/m ³
	Consumers	Ingestion	long term – systemic effects	1,39 mg/kg
	Consumers	Skin contact	long term – systemic effects	1,15 mg/kg
	Consumers	Inhalation	long term – systemic effects	4,87 mg/m ³
Propoxyliertes Neopentylglykoldiacrylat	Workers	Inhalation	long term – systemic effects	11,75 mg/m ³
	Workers	Skin contact	long term – systemic effects	3,33 mg/kg
	Consumers	Inhalation	long term – systemic effects	2,9 mg/m ³
	Consumers	Ingestion	long term – systemic effects	1,67 mg/kg
	Consumers	Skin contact	long term – systemic effects	1,67 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
hexane-1,6-diol diacrylate	Soil	0,00397 mg/kg
	Fresh water	0,0015 mg/l
	Marine water	0,00015 mg/l
	STP	2,7 mg/l
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Soil	0,00587 mg/kg
	Fresh water	0,00195 mg/l
	Fresh water sediment	0,0082 mg/kg
	STP	10 mg/l
	Marine water	0,000195 mg/l
Epoxy acrylate	Marine sediment	0,00082 mg/kg
	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
	Fresh water sediment	35,8 mg/kg
	Marine sediment	3,58 mg/kg
2-hydroxy-2-methylpropiophenone	clarification plant	10 mg/l
	Soil	7,1 mg/kg
	Soil	0,000674 mg/kg

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	Fresh water	0,00195 mg/l
	Fresh water sediment	0,00514 mg/kg
	clarification plant	45 mg/l
	Marine water	0,000195 mg/l
	Marine sediment	0,000514 mg/kg
	Sporadic Release	0,0195 mg/l
aluminium powder (stabilised)	Fresh water	0,0749 mg/l
	clarification plant	20 mg/l
Glycerol, propoxylated, esters with acrylic acid	Soil	0,00111 mg/kg
	Fresh water	0,00574 mg/l
	Fresh water sediment	0,01697 mg/kg
	Marine water	0,000574 mg/l
	Marine sediment	0,001697 mg/kg
	STP	10 mg/l
Propoxyliertes Neopentylglykoldiacrylat	Fresh water	0,0027 mg/l
	Fresh water sediment	0,1881 mg/kg
	Marine water	0,00027 mg/l
	STP	0,2 mg/l
	Soil	0,36 mg/kg
	Marine sediment	0,01881 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Wear face-shield and protective suit for abnormal processing problems.

Hand protection
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : No data available

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Freezing point : No data available

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Boiling point/boiling range	: 101 °C
Flash point	: 101 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Self-ignition	: No data available
Auto-ignition temperature	: No data available
Smoldering temperature	: No data available
Decomposition temperature	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: No data available
Bulk density	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

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9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

10.6 Hazardous decomposition products

Contact with water or humid air : This information is not available.

Thermal decomposition : This information is not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

hexane-1,6-diol diacrylate:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : (Rat): 0,14 mg/l
Exposure time: 7 h

Acute dermal toxicity : LD50 (Rabbit): 3.650 mg/kg

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Method: OECD Test Guideline 402

aluminium powder (stabilised):

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

2-hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one:

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

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid:

Result: Skin irritation

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Eye irritation

Components:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid:

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.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

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Components:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid:

Result: May cause sensitisation by skin contact.

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Components:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid:

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 10.232,73 mg/l

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 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.

Components:

Propylidynetrimehanol, ethoxylated, esters with acrylic acid:

Additional ecological information : No data available

SECTION 13: Disposal considerations

European Waste Catalogue : 08 03 12 - waste ink containing dangerous substances

13.1 Waste treatment methods

Product : 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.
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
In accordance with local and national regulations.

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SECTION 14: Transport information

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

H228	: Flammable solid.
H302	: Harmful if swallowed.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard

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Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Irrit. : Eye irritation
Flam. Sol. : Flammable solids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT RE : Specific target organ toxicity - repeated exposure
STOT SE : Specific target organ toxicity - single exposure
SI BAT : Slovenia. BAT-values
SI OEL : Slovenia. Chemical agents at work - Appendix 1: Occupational exposure limits
SI OEL / MV : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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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SI / EN