

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 3/06/2021 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : Shine

UFI : 7DDH-MWDQ-WT19-VFS7

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

1.2.1. Relevant identified uses

Main use category : Professional use Use of the substance/mixture : Coating

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

White Diamond Lentedreef 14 België T +32 486632580 www.white-diamond.be

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Remark
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)





GHS02

GHS09

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Signal word (CLP) · Warning

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H410 - Very toxic to aquatic life with long lasting effects.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Precautionary statements (CLP)

No smoking.

P391 - Collect spillage.

P501 - Dispose of contents and container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

Labelling according to: exemption for packages of a capacity of 125ml or less

Hazard pictograms (CLP)



GHS02

GHS09

Signal word (CLP) Warning

EUH-statements EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hexamethyldisiloxane	CAS-No.: 107-46-0 EC-No.: 203-492-7 REACH-no: 01-2119496108- 31	20 – 50	Flam. Liq. 2, H225 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Cristobalite substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 14464-46-1 EC-No.: 238-455-4	20 – 25	Not classified
Titanium dioxide (nano) substance with national workplace exposure limit(s) (BE) (Note V)(Note W)(Note 10)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-002 REACH-no: 01-2119489379- 17	5 – 10	Carc. 2, H351

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Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.

Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact Rinse skin with water/shower. Take off immediately all contaminated clothing.

First-aid measures after eye contact Rinse eyes with water as a precaution.

First-aid measures after ingestion Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

No additional information available.

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.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO2).

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

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. No open flames, no sparks, and no smoking.

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

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6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use explosion-proof equipment. Flammable vapours may accumulate in the container. Ensure good ventilation of the work station. Do not breathe vapours, mist. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed

when not in use.

Heat and ignition sources : Keep away from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Titanium dioxide (nano) (13463-67-7)				
Belgium - Occupational Exposure Limits				
Local name	Titane (dioxyde de) # Titaandioxide			
OEL TWA	10 mg/m³			
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020			
Cristobalite (14464-46-1)				
EU - Indicative Occupational Exposure Limit (IOEL)				
Local name	Silica crystaline (Cristobalite)			
IOEL TWA	0,05 mg/m³ (respirable dust)			
Notes	(Year of adoption 2003)			
Regulatory reference	SCOEL Recommendations			
Belgium - Occupational Exposure Limits				
Local name	Silices cristallines: cristobalite (poussières alvéolaires) # Siliciumdioxide (kristallijn): cristobaliet (inadembaar stof)			
OEL TWA	0,05 mg/m³			

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Cristobalite (14464-46-1)		
Remark (BE)	C: la mention "C" signifie que l'agent en question relève du champ d'application du titre 2 relatif aux agents cancérigènes, mutagènes et reprotoiques du livre VI du code de bien- être au travail. # C: de vermelding "C" betekent dat het betrokken agens valt onder het toepassingsgebied van titel 2 betreffende kankerverwekkende, mutagene en reprotoxische agentia van boek VI van de codex over het welzijn op het werk.	
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020	

8.1.2. Recommended monitoring procedures

No additional information available.

8.1.3. Air contaminants formed

No additional information available.

8.1.4. DNEL and PNEC

No additional information available.

8.1.5. Control banding

No additional information available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. Standard EN 166 - Personal eye-protection - specifications

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. EN 340

Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent).

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR), butyl rubber, Polyvinylchloride (PVC)	6 (> 480 minutes)	>0.11		EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of inadequate ventilation wear respiratory protection. EN 143

Respiratory protection			
Device Filter type Condition Standard			
Aerosol mask	(FFP2)	Vapour protection, Protection for Liquid particles	EN 143

8.2.2.4. Thermal hazards

No additional information available.

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8.2.3. Environmental exposure controls

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 Colour Not available Appearance transparent. Odour slight. Odour threshold Not available Melting point Not available Freezing point Not available Boiling point Not available Flammability Not available **Explosive limits** Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) Not available Flash point : 55 °C Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : Not available Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure Vapour pressure at 50 °C : Not available Density : 0,9 - 0,91 g/cm³ Relative density : Not available Relative vapour density at 20 °C : Not available : Not applicable Particle size Particle size distribution : Not applicable : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable Particle aggregation state Particle agglomeration state : Not applicable Particle specific surface area : Not applicable

9.2. Other information

Particle dustiness

9.2.1. Information with regard to physical hazard classes

No additional information available.

9.2.2. Other safety characteristics

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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: Not applicable

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10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Hexamethyldisiloxane (107-46-0)		
LD50 oral rat	12160 mg/kg (OECD 401)	
LD50 dermal rat	> 2000 mg/kg (OECD 402)	
ATE oral	12160 mg/kg bodyweight	
Titanium dioxide (nano) (13463-67-7)		
LD50 oral > 5000 mg/kg bodyweight		
LDE0 darmal	10000 mg/kg hodgaysight	

 LD50 dermal
 > 10000 mg/kg bodyweight

 LC50 Inhalation - Rat (Dust/Mist)
 > 6820 mg/l

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

11.2. Information on other hazards

No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term

: Toxic to aquatic life with long lasting effects.

(chronic)

(acute)

Hexamethyldisiloxane (107-46-0)		
LC50 - Fish [1] 3,02 mg/l (EPA OTS 797.1400; Oncorhynchus mykiss)		
EC50 96h - Algae [1]	0,22 mg/l (OECD 201; Pseudokirchneriella subcapitata)	
NOEC chronic crustacea	0,08 mg/l (OECD 211; Daphnia magna)	

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Titanium dioxide (nano) (13463-67-7)		
LC50 - Fish [1]	> 10000 mg/l	
EC50 - Other aquatic organisms [1]	> 10000 mg/l waterflea	
EC50 - Other aquatic organisms [2]	> 10000 mg/l	

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

Shine

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available.

12.7. 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.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG IATA		ADN	RID	
14.1. UN number or ID number					
UN 1993 UN 1993		UN 1993	UN 1993	UN 1993	
14.2. UN proper shippin	14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S. (CONTAINS : Hexamethyldisiloxane)	FLAMMABLE LIQUID, N.O.S. (CONTAINS : Hexamethyldisiloxane)	Flammable liquid, n.o.s. (CONTAINS : Hexamethyldisiloxane)	FLAMMABLE LIQUID, N.O.S. (CONTAINS : Hexamethyldisiloxane)	FLAMMABLE LIQUID, N.O.S. (CONTAINS : Hexamethyldisiloxane)	

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ADR	IMDG	IATA	ADN	RID	
Transport document description					
UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS: Hexamethyldisiloxane), 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS: Hexamethyldisiloxane), 3, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1993 Flammable liquid, n.o.s. (CONTAINS : Hexamethyldisiloxane), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS: Hexamethyldisiloxane), 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (CONTAINS: Hexamethyldisiloxane), 3, III, ENVIRONMENTALLY HAZARDOUS	
14.3. Transport hazard	class(es)				
3	3	3	3	3	
**************************************	3	3	3	**************************************	
14.4. Packing group					
III	III	III	III	III	
14.5. Environmental hazards					
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	
No supplementary information	No supplementary information available.				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 274, 601
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30
Orange plates : I

30 1993

Tunnel restriction code (ADR) : D/E

Transport by sea

Special provisions (IMDG) : 223, 274, 955

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1, TP29

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EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y344 PCA limited quantity max net quantity (IATA) : 10L PCA packing instructions (IATA) 355 PCA max net quantity (IATA) : 60L : 366 CAO packing instructions (IATA) CAO max net quantity (IATA) : 220L : A3 Special provisions (IATA) ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 274, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1
Special provisions (RID) : 274, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T4

Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

14.7. Maritime transport in bulk according to IMO instruments

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

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
3(a)	Shine ; Hexamethyldisiloxane	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	
3(c)	Shine ; Hexamethyldisiloxane	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
40.	Hexamethyldisiloxane	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500

15.1.2. National regulations

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ATE	Acute Toxicity Estimate	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LD50	Median lethal dose	
PBT	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources

: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2016/1179.

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Other information

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This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

Full text of H- and EUH-statements			
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Carc. 2	Carcinogenicity, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H351	Suspected of causing cancer.		
H400	Very toxic to aquatic life.		
H411	Toxic to aquatic life with long lasting effects.		
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Flam. Liq. 3	H226	On basis of test data
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method

Safety Data Sheet applicable for regions : BE - Belgium

This Safety Data Sheet is compiled by: ChemPros B.V. | +31(0)797676006 | info@chemprosbv.nl

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