

SAFETY DATA SHEET

NBS PU Precision Foam 595

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

1.1. Product identifier

Trade name

NBS PU Precision Foam 595

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

Relevant identified uses of the substance or mixture

For professional and industrial use only. Not recommended for DIY-use.

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

Dana Lim A/S

Københavnsvej 220

DK-4600 Køge

Denmark

Tel: +45 56 64 00 70

Fax: +45 56 64 00 90

Contact person

Product Safety Department

E-mail

info@danalim.dk

SDS date

2021-06-11

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Aerosol 1; H222, H229, Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Irrit. 2; H319, Causes serious eye irritation.

Resp. Sens. 1; H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT SE 3; H335, May cause respiratory irritation.

Carc. 2; H351, Suspected of causing cancer.

Lact. H362, May cause harm to breast-fed children.

STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 4; H413, May cause long lasting harmful effects to aquatic life.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Extremely flammable aerosol.

Pressurised container: May burst if heated. (H222)

May cause long lasting harmful effects to aquatic life. (H413)

Causes skin irritation. (H315)

May cause an allergic skin reaction. (H317)

Causes serious eye irritation. (H319)

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (H334)

May cause respiratory irritation. (H335)

Suspected of causing cancer. (H351)

May cause harm to breast-fed children. (H362)

May cause damage to organs through prolonged or repeated exposure. (H373)

Safety statement(s)

General

-

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Do not spray on an open flame or other ignition source. (P211)

Do not pierce or burn, even after use. (P251)

Use only outdoors or in a well-ventilated area. (P271)

Wear eye protection / protective gloves / protective clothing. (P280)

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. (P410+P412)

Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

Hazardous substances

Diphenyl methane diisocyanate, isomers and homologues

Alkanes, C14-17, chloro

2.3. Other hazards

Additional labelling

As from 24 August 2023 adequate training is required before industrial or professional use.

EUH204, Contains isocyanates. May produce an allergic reaction.

Additional warnings

In the event of leaks, high concentrations of gases can quickly form. They can be toxic, asphyxiating, or explosive.

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	Identifiers	% w/w	Classification	Note
Diphenyl methane diisocyanate, isomers and homologues	CAS No.: 9016-87-9 EC No.: 618-498-9 REACH: Index No.:	40-<60%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Resp. Sens. 1, H334 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT RE 2, H373 STOT SE 3, H335	
Alkanes, C14-17, chloro	CAS No.: 85535-85-9 EC No.: 287-477-0 REACH: 01-2119519269-33-xxxx Index No.: 602-095-00-X	10-<20%	Lact. H362 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH066	
Dimethyl ether	CAS No.: 115-10-6 EC No.: 204-065-8 REACH: 01-2119472128-37-xxxx Index No.: 603-019-00-8	10-<20%	Press. Gas (Comp.) H280 Flam. Gas 1A, H220	[1]
isobutane	CAS No.: 75-28-5 EC No.: 200-857-2 REACH: 01-2119485395-27 Index No.: 601-004-00-0	5-<10%	Flam. Gas 1A, H220 Press. Gas (Comp.) H280	
Propane-1,2-diol, propoxylated	CAS No.: 25322-69-4 EC No.: 500-039-8 REACH: Index No.:	2,5-<5%	Acute Tox. 4, H302	
propane	CAS No.: 74-98-6 EC No.: 200-827-9 REACH: Index No.: 601-003-00-5	2,5-<5%	Flam. Gas 1A, H220 Press. Gas (Comp.) H280	
Glycerol, propoxylated	CAS No.: 25791-96-2 EC No.: 500-044-5 REACH: Index No.:	1-<2,5%	Acute Tox. 4, H302	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Sensitisation: This product contains substances, which may produce an allergic reaction through inhalation. The allergic reaction typically takes place within an hour after exposure. The reaction results in an inflammatory reaction to the lungs.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:

Get immediate medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Given that it does not present and hazard gas supplies shall be disrupted immediately. Removal of pressurized containers or attempting to cool with water shall be entrusted the fire brigade.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO₂).

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Because of the danger of self-ignition, any waste from the product, spray mist and soiled rags etc. are to be kept in a fire-proof place in air-tight containers, alternatively the waste is to be burned.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Pressurized gas packs (spray cans, aerosol cans) must be stored behind a wire mesh, which allows gases to escape and holds back packs flying around.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

Dry, cool and well ventilated

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

—
Dimethyl ether

Long term exposure limit (8 hours) (ppm): 400

Long term exposure limit (8 hours) (mg/m³): 766

Short term exposure limit (15 minutes) (ppm): 500

Short term exposure limit (15 minutes) (mg/m³): 958

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020)

DNEL

Product/substance	Alkanes, C14-17, chloro
DNEL	47,9 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Alkanes, C14-17, chloro
DNEL	6,7 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Alkanes, C14-17, chloro
DNEL	0,58 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	Alkanes, C14-17, chloro
DNEL	28,75 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Alkanes, C14-17, chloro
DNEL	2 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Dimethyl ether
DNEL	1894 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Dimethyl ether
DNEL	471 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Propane-1,2-diol, propoxylated
DNEL	84 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Propane-1,2-diol, propoxylated
DNEL	24 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	Propane-1,2-diol, propoxylated
DNEL	51 mg/kg
Route of exposure	Dermal

Duration Long term – Systemic effects - General population

PNEC

Product/substance Alkanes, C14-17, chloro
 PNEC 80 mg/l
 Route of exposure Sewage treatment plant
 Duration of Exposure

Product/substance Alkanes, C14-17, chloro
 PNEC 11,9 mg/kg
 Route of exposure Soil
 Duration of Exposure

Product/substance Alkanes, C14-17, chloro
 PNEC 0,001 mg/l
 Route of exposure Freshwater
 Duration of Exposure

Product/substance Alkanes, C14-17, chloro
 PNEC 0,0002 mg/l
 Route of exposure Marine water
 Duration of Exposure

Product/substance Alkanes, C14-17, chloro
 PNEC 13 mg/kg
 Route of exposure Freshwater sediment
 Duration of Exposure

Product/substance Alkanes, C14-17, chloro
 PNEC 2,6 mg/kg
 Route of exposure Marine water sediment
 Duration of Exposure

Product/substance Dimethyl ether
 PNEC 160 mg/l
 Route of exposure Sewage treatment plant
 Duration of Exposure

Product/substance Dimethyl ether
 PNEC 0,045 mg/kg
 Route of exposure Soil
 Duration of Exposure

Product/substance Dimethyl ether
 PNEC 1,549 mg/l
 Route of exposure Intermittent release
 Duration of Exposure

Product/substance Dimethyl ether
 PNEC 0,155 mg/l
 Route of exposure Freshwater

Duration of Exposure

Product/substance Dimethyl ether
 PNEC 0,016 mg/l
 Route of exposure Marine water
 Duration of Exposure

Product/substance Dimethyl ether
 PNEC 0,681 mg/kg
 Route of exposure Freshwater sediment
 Duration of Exposure

Product/substance Dimethyl ether
 PNEC 0,069 mg/kg
 Route of exposure Marine water sediment
 Duration of Exposure

Product/substance Propane-1,2-diol, propoxylated
 PNEC 100 mg/l
 Route of exposure Sewage treatment plant
 Duration of Exposure

Product/substance Propane-1,2-diol, propoxylated
 PNEC 0,109 mg/kg
 Route of exposure Soil
 Duration of Exposure

Product/substance Propane-1,2-diol, propoxylated
 PNEC 1 mg/l
 Route of exposure Intermittent release
 Duration of Exposure

Product/substance Propane-1,2-diol, propoxylated
 PNEC 0,1 mg/l
 Route of exposure Freshwater
 Duration of Exposure

Product/substance Propane-1,2-diol, propoxylated
 PNEC 0,01 mg/l
 Route of exposure Marine water
 Duration of Exposure

Product/substance Propane-1,2-diol, propoxylated
 PNEC 0,765 mg/kg
 Route of exposure Freshwater sediment
 Duration of Exposure

Product/substance Propane-1,2-diol, propoxylated
 PNEC 0,0765 mg/kg
 Route of exposure Marine water sediment
 Duration of Exposure

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Adequate ventilation must be ensured for all gases. Where natural ventilation is not possible (cellar rooms), artificial ventilation must be installed. It is advantageous to store it in a lattice shed outdoors, as ventilation is no longer necessary in this case.

Do not recirculate outlet air that contain the substances.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.


Individual protection measures, such as personal protective equipment

Generally


Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Use only CE marked protective equipment.


Respiratory Equipment

Work situation	Type	Class	Colour	Standards	
In case of intensive or longer exposure	Powered fresh air hose breathing apparatus				
In case of insufficient ventilation and short term use	AX	-	Brown	EN141	


Skin protection

Work situation	Recommended	Type/Category	Standards	
	Dedicated work clothing should be worn.	-	-	

Hand protection

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
	Nitrile	0.5	>480	EN374-2, EN388	

Eye protection

Work situation	Type	Standards	
	Wear safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Aerosol

Colour

Testing not relevant or not possible due to nature of the product.

Odour / Odour threshold

Testing not relevant or not possible due to nature of the product.

pH

Testing not relevant or not possible due to nature of the product.

Density (g/cm³)

1.00 (20.00 °C)

Kinematic viscosity

Testing not relevant or not possible due to nature of the product.

Particle characteristics

Testing not relevant or not possible due to nature of the product.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to aerosols.

Boiling point (°C)

-12 °C

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Relative vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Data on fire and explosion hazards

Flash point (°C)

-83.00 °C

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

460 °C

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Insoluble

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

Avoid static electricity.

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	Diphenyl methane diisocyanate, isomers and homologues
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg ·
Other information	

Product/substance	Diphenyl methane diisocyanate, isomers and homologues
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	490 mg/m ³ , 4h ·
Other information	

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May cause harm to breast-fed children.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

The product contains a substance / substances, which may cause harm to breast-fed children.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

No special

Other information

Diphenyl methane diisocyanate, isomers and homologues has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Diphenyl methane diisocyanate, isomers and homologues
Test method	
Species	Daphnia
Compartment	
Duration	24 hours
Test	EC50
Result	>1000 mg/l ·
Other information	

Product/substance	Diphenyl methane diisocyanate, isomers and homologues
Test method	
Species	
Compartment	
Duration	3 hours
Test	EC50
Result	>100 mg/l ·
Other information	

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

No special

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 3 - Flammable

HP 4 - Irritant (skin irritation and eye damage)

HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 6 - Acute toxicity

HP 7 – Carcinogenic
 HP 13 – Sensitising
 Avoid discharge to lakes, streams, sewers, etc.
 Dispose of contents/container to an approved waste disposal plant.
 Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

16 05 04* Gases in pressure containers (including halons) containing dangerous substances

Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

UN- or ID number	UN proper shipping name	Labels	PG	Tunnel restriction code
1950	AEROSOLS, flammable	2.1		2 (D)

IMDG

UN- or ID number	UN proper shipping name	Labels	PG	EmS
1950	AEROSOLS, flammable	2.1		F-D, S-U

MARINE POLLUTANT

Yes

IATA

UN- or ID number	UN proper shipping name	Labels	PG
1950	AEROSOLS, flammable	2.1	

14.5. Environmental hazards

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

SEVESO - Categories / dangerous substances

P3a - FLAMMABLE AEROSOLS, Qualifying quantity (lower-tier): 150 tonnes (net) / (upper-tier): 500 tonnes (net)

Additional information

Not applicable

Sources

The Management of Health and Safety at Work Regulations 1999
The Health and Safety at Work etc. Act 1974 Regulations 2013.
Control of Major Accident Hazards (COMAH) Regulations 2015.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
Regulation (EC) 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H332, Harmful if inhaled.
H319, Causes serious eye irritation.
H351, Suspected of causing cancer.
H373, May cause damage to organs through prolonged or repeated exposure.
H335, May cause respiratory irritation.
H362, May cause harm to breast-fed children.
H400, Very toxic to aquatic life.
H410, Very toxic to aquatic life with long lasting effects.
EUH066, Repeated exposure may cause skin dryness or cracking.
H280, Contains gas under pressure; may explode if heated.
H220, Extremely flammable gas.
H302, Harmful if swallowed.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol

of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit.
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

The classification of the substance/mixture in regard of physical hazards has been based on experimental data.

The safety data sheet is validated by

Product Safety Department

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en