

SAFETY DATA SHEET

Contact Adhesive 281

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

1.1. Product identifier

Trade name

Contact Adhesive 281

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

Relevant identified uses of the substance or mixture

Contact gluing

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

2021-07-15

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

Flam. Liq. 2; H225, Highly flammable liquid and vapour.

Skin Irrit. 2; H315, Causes skin irritation.

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

STOT SE 3; H335, May cause respiratory irritation.

STOT SE 3; H336, May cause drowsiness or dizziness.

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

Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Highly flammable liquid and vapour. (H225)

Causes skin irritation. (H315)

Causes serious eye irritation. (H319)

May cause respiratory irritation. (H335)

May cause drowsiness or dizziness. (H336)

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

Toxic to aquatic life with long lasting effects. (H411)

Safety statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

Prevention

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

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

Response

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

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Disposal

-

Hazardous substances

ethyl acetate

xylene

ethylbenzene

disulfiram;tetraethylthiuramdisulfide

2.3. Other hazards

Additional labelling

EUH208, Contains Colophony, disulfiram;tetraethylthiuramdisulfide. May produce an allergic reaction.

Additional warnings

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

Product/substance	Identifiers	% w/w	Classification	Note
ethyl acetate	CAS No.: 141-78-6 EC No.: 205-500-4 REACH: 01-2119475103-46-XXXX Index No.: 607-022-00-5	25-40%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1]
xylene	CAS No.: 1330-20-7	15-25%	Flam. Liq. 3, H226	[1]

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

	EC No.: 215-535-7 REACH: 01-2119488216-32-XXXX Index No.: 601-022-00-9		Asp. Tox. 1, H304 Acute Tox. 4, H312 Skin Irrit. 2, H315 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT RE 2, H373 STOT SE 3, H335	
Heptane	CAS No.: EC No.: 927-510-4 REACH: 01-2119475515-33-xxxx Index No.:	15-25%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
ethylbenzene	CAS No.: 100-41-4 EC No.: 202-849-4 REACH: 01-2119489370-35-XXXX Index No.: 601-023-00-4	5-10%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Acute Tox. 4, H332 STOT RE 2, H373	[1]
zinc oxide	CAS No.: 1314-13-2 EC No.: 215-222-5 REACH: 01-2119463881-32-XXXX Index No.: 030-013-00-7	<1%	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Colophony	CAS No.: 8050-09-7 EC No.: 232-475-7 REACH: 01-2119480418-32-0000 Index No.: 650-015-00-7	<1%	Skin Sens. 1, H317	
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	CAS No.: 119-47-1 EC No.: 204-327-1 REACH: 01-2119496065-33-XXXX Index No.:	<0,3%	Repr. 1B, H360F	
disulfiram;tetraethylthiuramdisulfide	CAS No.: 97-77-8 EC No.: 202-607-8 REACH: 01-2119555278-30-XXXX Index No.: 006-079-00-8	<0,3%	Acute Tox. 4, H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	

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 person into fresh air and stay with him/her.

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

This product contains substances that may trigger an allergic reaction to predisposed persons.

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.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and 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.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

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

Ground and bond container and receiving equipment.

Use explosion-proof [electrical / lighting / ventilating]equipment.

Use non-sparking tools.

Take action to prevent static discharges.

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

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

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

—
ethyl acetate

Long term exposure limit (8 hours) (ppm): 200

Short term exposure limit (15 minutes) (ppm): 400

—
xylene

Long term exposure limit (8 hours) (ppm): 50

Long term exposure limit (8 hours) (mg/m³): 220

Short term exposure limit (15 minutes) (ppm): 100

Short term exposure limit (15 minutes) (mg/m³): 441

Annotations:

BMVG = Biological Monitoring Guidance Value exists

Sk = Can be absorbed through the skin and lead to systemic toxicity.

—
ethylbenzene

Long term exposure limit (8 hours) (ppm): 100

Long term exposure limit (8 hours) (mg/m³): 441

Short term exposure limit (15 minutes) (ppm): 125

Short term exposure limit (15 minutes) (mg/m³): 552

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

—
Colophony

Long term exposure limit (8 hours) (mg/m³): 0,05

Short term exposure limit (15 minutes) (mg/m³): 0,15

Annotations:

Sen = Capable of causing occupational asthma.

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	xylene
DNEL	221 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	xylene
DNEL	442 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers

Product/substance	xylene
DNEL	221 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers

Product/substance	xylene
DNEL	442 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers

Product/substance	xylene
DNEL	212 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

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

Product/substance	xylene
DNEL	65.3 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population

Product/substance	xylene
DNEL	260 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population

Product/substance	xylene
DNEL	65.3 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - General population

Product/substance	xylene
DNEL	260 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Local effects - General population

Product/substance	xylene
DNEL	125 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population

PNEC

Product/substance	xylene
PNEC	327 µg/L
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	xylene
PNEC	327 µg/L
Route of exposure	Marine water
Duration of Exposure	

Product/substance	xylene
PNEC	6.58 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	

Product/substance	xylene
PNEC	12.46 mg/kg sediment dw
Route of exposure	Freshwater sediment
Duration of Exposure	

Product/substance	xylene
PNEC	12.46 mg/kg sediment dw
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

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above).

Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended.

Ensure emergency eyewash and -showers are clearly marked.

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

Use only CE marked protective equipment.


Respiratory Equipment

Work situation	Type	Class	Colour	Standards	
In case of insufficient ventilation	A	Class 2 (medium capacity)	Brown	EN14387	


Skin protection

Work situation	Recommended	Type/Category	Standards	
	Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	

Hand protection

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
	Nitrile	0.5	> 30	EN374-2, EN374-3, 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

Liquid

Colour

Yellow

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)

0.87

Kinematic viscosity

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

Particle characteristics

Does not apply to liquids.

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 liquids.

Boiling point (°C)

104.00 °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)

7.00 °C

Ignition (°C)

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

Auto flammability (°C)

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

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	ethyl acetate
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	5600 mg/kg ·
Other information	

Product/substance	ethyl acetate
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	56000 mg/l/4h ·
Other information	

Product/substance	xylene
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>3900 mg/kg ·
Other information	

Product/substance	xylene
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	20 mg/l 4h ·
Other information	

Product/substance	zinc oxide
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	2500 mg/min ·
Other information	

Product/substance	zinc oxide
Test method	
Species	Rat
Route of exposure	Oral

Test	LD50
Result	7950 mg/kg ·
Other information	

Product/substance	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>10000mg/kg ·
Other information	

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

This product contains substances that may trigger an allergic reaction to predisposed persons.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

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

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.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

No special

Other information

xylene has been classified by IARC as a group 3 carcinogen.

ethylbenzene has been classified by IARC as a group 2B carcinogen.

disulfiram;tetraethylthiuramdisulfide has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance ethyl acetate
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result >200 mg/l ·
 Other information

Product/substance ethyl acetate
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test EC50
 Result >700 mg/l ·
 Other information

Product/substance ethyl acetate
 Test method
 Species Algae
 Compartment
 Duration 72 hours
 Test IC50
 Result >100 mg/l ·
 Other information

Product/substance xylene
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 2 mg/l ·
 Other information

Product/substance xylene
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test EC50
 Result 8,5 mg/l ·
 Other information

Product/substance xylene
 Test method
 Species Algae
 Compartment
 Duration 72 hours
 Test LC50
 Result 3,2 mg/l ·

Other information

Product/substance	zinc oxide
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	>1000 mg/l ·
Other information	

Product/substance	zinc oxide
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	1,1 mg/l ·
Other information	

Product/substance	zinc oxide
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	0,17 mg/l ·
Other information	

Product/substance	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>50mg/l ·
Other information	

12.2. Persistence and degradability

Product/substance	ethyl acetate
Biodegradable	Yes
Test method	
Result	

Product/substance	xylene
Biodegradable	Yes
Test method	
Result	

12.3. Bioaccumulative potential

Product/substance	xylene
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Test method	
Potential bioaccumulation	No data available
LogPow	3,1500
BCF	24
Other information	

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 14 - Ecotoxic

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

08 04 09* Waste adhesives and sealants containing organic solvents or other 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	Packing group	Tunnel restriction code
1133	ADHESIVES	3	II	2 (D/E)

IMDG

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
1133	ADHESIVES	3	II	F-E, S-D

MARINE POLLUTANT

Yes

IATA

UN- or ID number	UN proper shipping name	Labels	Packing group
1133	ADHESIVES	3	II

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

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

No specific requirements

SEVESO - Categories / dangerous substances

P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

Additional information

Tactile warning.

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

EUH066, Repeated exposure may cause skin dryness or cracking.

H225, Highly flammable liquid and vapour.

H226, Flammable liquid and vapour.

H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.

H312, Harmful in contact with skin.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H336, May cause drowsiness or dizziness.
H360F, May damage fertility.
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.

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 environmental 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.

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