

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878
Version 14.0 Revision date: 27-10-2022
Trade name: Release agent spray Z25LE

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

1.1 Product identification:

Product name: Release agent spray Z25LE
UFI : DH90-H09J-U00R-GUT8

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

Usage: Release agent
Recommended limitations for use: For industrial and professional use only.

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium:

Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to directive (EC) No 1272/2008 and its amendments.

The product is classified according to current legislation.

Classification in accordance with Regulation (EC) No 1272/2008 as amended.

Health hazards

Aerosols, Category 1 - H222: Extremely flammable aerosol.

Aerosols, Category 1 - H229: Container under pressure: may burst open on heating.

Skin corrosion/irritation, Category 2 - H315: Causes skin irritation.

Specific target organ toxicity - single exposure, Category 3, Central nervous system - H336: May cause drowsiness or dizziness.

(Chronic) Aquatic long-term hazard, Category 2 - H411: Toxic to aquatic organisms with long-lasting effects.

Eye irritation, Category 2 - H319: Causes severe eye irritation.

2.2 Labelling elements:

Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:



Hazard pictograms:

Signal word: Danger.

Hazardous ingredients to be labelled:

- ✓ Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha

Hazard statements:

H222 Highly flammable aerosol.

H229 Pressurised container: may burst open when heated.

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H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic organisms with long-lasting effects.

Precautions

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.
P211 Do not spray into an open flame or onto other sources of ignition.
P251 Do not pierce or burn even after use.
P273 Avoid discharge into the environment.
P391 Clean up any leaks/spills.

Storage:

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

2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Toxicological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.2 Mixtures:

Description:

Chemical description : Wax solution

Chemical Name	CAS No. EC No. Index no. Registration number	Classification (Regulation (EC) No 1272/008)	Concentration (%)
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	64742-49-0 265-151-9 649-328-00-1 01-2119475515-33	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 30 - < 50
hydrocarbons, C3-4; petroleum gas	68476-40-4 270-681-9 649-199-00-1 -	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	>= 30 - < 50
naphtha (petroleum), hydrotreated heavy; low boiling point hydrogen treated naphtha	64742-48-9 265-150-3 649-327-00-6 01-2119471843-32	STOT SE3; H336 Asp. Tox.1; H304 Flam. Liq.3; H226 Aquatic Chronic3; H412 EUH066	>= 5 - < 7
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatics	Not allocated - - 01-2119457273-39	Asp. Tox. 1; H304 EUH066	>= 3 - < 5
Toluene	108-88-3 203-625-9 601-021-00-3 -	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d	>= 0,1 - < 0,25

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		STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	
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For explanation of abbreviations, see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures:

General advice:

Keep warm and put in a quiet environment.
Show this safety data sheet to the doctor on duty.
Remove contaminated clothing immediately.

By inhalation:

Getting into the fresh air.
Keep victim warm and calm.
If symptoms persist, consult a doctor.

On contact with skin:

Immediately wash with soap and plenty of water.
DO NOT use solvents or paint thinner.
In case of spillage on clothing, remove clothing.
If skin irritation persists, consult a doctor.

On contact with eyes:

Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.
As far as easy to do, remove any contact lenses.

If swallowed:

Keep calm.
Do not induce vomiting without medical advice.
Keep breathing passages clear.
If symptoms persist, consult a doctor.

4.2 Main acute and delayed symptoms and effects:

Symptoms:

Irritant effects.

4.3 Indication of immediate medical attention and special treatment required:

Treatment:

The procedure for first aid should be drawn up together with the company doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Foam
Sand
Carbon dioxide (CO₂)
Water mist

Unsuitable extinguishing media:

Water spray jet

5.2 Special hazards arising from the substance or mixture:

Specific hazards in firefighting:

Heat can increase pressure in sealed containers.
Cool closed containers near the fire with water spray.

5.3 Advice for firefighters:

Special protective equipment for firefighters:

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Wear compressed air mask in case of fire. Use personal protective equipment.

Further information:

Use extinguishing agents suitable for the local conditions and environment.

Immediately evacuate personnel to a safe area.

Prevent extinguishing water from contaminating surface water or groundwater systems.

Combustion residues and contaminated fire fighting water must be disposed of according to local regulations.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions:

See protective measures in sections 7 and 8.

Evacuate personnel to a safe area.

Use personal protective equipment.

Ensure adequate ventilation.

Inform the competent authority in case of gas leaks, or runoff into waterways, soil or sewers.

6.2 Environmental precautions:

Environmental precautions:

Avoid uncontrolled discharge of product into the environment.

Try to prevent the material from draining into sewers or watercourses.

In case of significant leaks that cannot be contained, the local government should be notified.

6.3 Methods and materials for containment and cleaning:

Cleaning methods:

Absorb in inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Limit spill and collect with non-combustible absorbent materials, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/country regulations (see section 13).

Incorporate and transfer into properly labelled containers.

6.4 Reference to other sections:

For personal protection, see section 8.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

Safe handling advice:

Ensure adequate ventilation and/or extraction in the workplace.

Avoid inhalation, ingestion and contact with skin and eyes.

Wear personal protective clothing.

Advice on protection against fire and explosion:

Keep away from open flames, hot surfaces and ignition sources.

Hygiene measures:

Ensure adequate air ventilation.

Wash hands and face before stopping work and immediately after using the product.

7.2 Conditions for safe storage, including incompatibilities:

Requirements for storage areas and containers:

Keep containers tightly closed in a cool and well-ventilated place.

Store in correctly labelled containers.

To maintain product quality do not expose to heat or direct sunlight.

Advice for mixed storage:

Keep product and empty packaging away from heat and ignition sources.

Keep away from food and drink.

Oxidising agents.

Other details:

Stable at normal room temperature and pressure.

7.3 Specific end use:

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Specific use:

Before using this substance/mixture, refer to the technical guidelines.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

Limits exposure on appeal

Components	CAS No.	Type of value (Mode of exposure)	Control parameters	Basic
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	64742-49-0	TGG 8 hr (Mists)	5 mg/m ³	BE OEL
		TGG 15 min (Mists)	10 mg/m ³	BE OEL
hydrocarbons, C3-4; petroleum gas	68476-40-4	TGG 15 min	980 ppm 2,370 mg/m ³	BE OEL
Toluene	108-88-3	TWA	50 ppm 192 mg/m ³	2006/15/EC
	Further information : Indicative, Identifies a potentially significant uptake through the skin			
		STEL	100 ppm 384 mg/m ³	2006/15/EC
	Further information : Indicative, Identifies a potentially significant uptake through the skin			
		TGG 8 hr	20 ppm 77 mg/m ³	BE OEL
	Further information : Absorption of the agent through the skin, mucous membranes or eyes constitutes an important part of the total exposure. This uptake can result from both direct contact and its presence in the air.			
		TGG 15 min	100 ppm 384 mg/m ³	BE OEL
Further information	Absorption of the agent through the skin, mucous membranes or eyes constitutes an important part of total exposure. This uptake can result from both direct contact and its presence in the air.			

Derived no-effect doses (DNEL) according to Regulation (EC) Number 1907/2006:

Substance name	End use	Route of exposure	Possible health conditions	Value
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	Employees	Skin touch	Long-term - systemic effects	300 mg/kg
	Employees	Inhalation	Long-term - systemic effects	2085 mg/m ³
	Consumers	Skin touch	Long-term - systemic effects	149 mg/kg
	Consumers	Inhalation	Long-term - systemic effects	447 mg/m ³
	Consumers	Ingestion	Long-term - systemic effects	149 mg/kg
naphtha (petroleum), hydrotreated heavy; low boiling point hydrogen treated naphtha	Employees	Skin touch	Chronic effects, Systemic effects	300 mg/kg
	Consumers	Skin touch	Chronic effects, Systemic effects	300 mg/kg
	Employees	Inhalation	Chronic effects, Systemic effects	1500 mg/m ³
	Consumers	Inhalation	Chronic effects, Systemic effects	900 mg/m ³

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	Consumers	Ingestion	Chronic effects, Systemic effects	300 mg/kg
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8.2 Exposure control measures:

Technical controls:

Effective ventilation at all workplaces.
Effective extraction ventilation system.

Personal protection devices:

Eye protection:

Do not wear contact lenses.
Safety glasses with side shields in accordance with EN 166
Provide eyewash facilities and safety showers close to the workplace.

Hand protection

Material:

Protective gloves according to EN 374.

Material: Nitrile rubber

Breakthrough time: 480 min

Glove thickness: 0.4 mm

Skin and body protection:

Protective clothing

Recommended preventive skin protection.

Additional body covering should be used according to the task to be performed (e.g. protective sleeves, apron, gloves, disposable suit) to avoid exposing skin surfaces.

Flame-retardant, anti-static protective clothing.

Respiratory protection:

Unless adequate local exhaust ventilation is provided, or exposure assessment shows that exposures are within recommended exposure guidelines, use respiratory protection.

Breathing protection with half-mask.

In case of vapour formation, use a respirator with an approved filter type.

Recommended filter type:

ABEK filter

The equipment must comply with EN 14387.

Protective measures:

Avoid contact with skin.

Wear suitable personal protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	aerosol
Colour:	colourless
Odour:	characteristic
Odour threshold value:	Not performed
Melting/freezing point:	Not applicable
Boiling point/boiling range:	> 45 °C
Upper explosion limit / Upper flammability limit:	Not applicable
Lower explosion limit / Lower flammability limit:	Not applicable
Flash point:	Not applicable
Ignition temperature:	Not applicable
Self-ignition temperature:	Not applicable
Decomposition temperature:	No data available
pH:	7
	Concentration: 1 %

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Viscosity

Viscosity, kinematic: Not performed

Solubility

Solubility in water: Not performed

Solubility in other solvents: Not performed

Partition coefficient: n-octanol/water: No data available

Vapour pressure: Not applicable

Density: 758 kg/m³

Bulk specific gravity: Not exported

Relative vapour density: Not performed

Particle characteristics

Particle size: Not applicable

9.2 Other information

Explosives: Not applicable

Oxidising properties: Not applicable

Self-ignition: Not applicable

Evaporation rate: Not performed

Surface tension: Not performed

Sublimation point: Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity:

Stable under recommended storage conditions.

10.2 Chemical Stability:

No decomposition if stored and applied as indicated.

10.3 Potential Hazardous Reactions:

Dangerous reactions:

No hazardous reactions were observed under normal conditions of use.

10.4 Conditions to avoid:

Conditions to avoid:

No decomposition if directions are followed.

10.5 Chemically interacting Materials:

Materials to avoid:

Incompatible with oxidising agents.

10.6 Hazardous Decomposition Products:

Stable under normal conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute Toxicity

Product:

Acute oral toxicity:

Comments: No data available

Acute toxicity by inhalation:

Comments: No data available

Acute dermal toxicity:

Comments: No data available

Acute toxicity (other route of administration):

Comments: No data available

Constituents:

Naphtha (petroleum), hydrotreated heavy; low boiling point hydrogen treated naphtha:

Acute oral toxicity:

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LD50 (Rat): > 5,000 mg/kg
Method: Guideline test OECD 401
GLP: yes

Acute toxicity by inhalation:

LC50 (Rat): 4,951 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Guideline test OECD 403

Acute dermal toxicity:

LD50 (Rabbit): > 5,000 mg/kg
Method: Guideline test OECD 402
GLP: yes

Skin corrosion/irritation

Product:
Comments: No data available

Serious eye damage/eye irritation

Product:
Comments: No data available

Respiratory/skin sensitisation

Product:
Comments: No data available

Mutagenicity in gametes

Constituents:

hydrocarbons, C3-4; petroleum gas:

Mutagenicity in germ cells- Assessment:

Classified based on 1,3-butadiene content < 0.1% (regulation (EC) 1272/2008, appendix VI, part 3, note K)

Naphtha (petroleum), hydrotreated heavy; low boiling point hydrogen treated naphtha:

Mutagenicity in germ cells- Assessment:

Classified based on benzene content < 0.1% (regulation (EC) 1272/2008, appendix VI, part 3, note P)

Carcinogenicity

Product:
Comments: No data available

Constituents:

hydrocarbons, C3-4; petroleum gas:

Carcinogenicity - Assessment:

Classified based on 1,3-butadiene content < 0.1% (regulation (EC) 1272/2008, appendix VI, part 3, note K)

Naphtha (petroleum), hydrotreated heavy; low boiling point hydrogen treated naphtha:

Carcinogenicity - Assessment:

Classified based on benzene content < 0.1% (regulation (EC) 1272/2008, appendix VI, part 3, note P) **Toxicity**

for reproduction

Product:

Effects on fertility:

Comments: No data available

Effects on foetal development:

Comments: No data available

STOT from single exposure

Product:

Notes: Not applicable

STOT on repeated exposure

Product:

Notes: Not applicable

Repeated-dose toxicity

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Product:

Comments: No data available

11.2 Information on other hazards

Endocrine-disrupting properties

Product:

Assessment:

The substance/mixture does not contain components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Further information

Product:

Notes:

No data available

SECTION 12: Ecological information

12.1 Toxicity:

Product:

Toxicity to fish:

Comments: No data available

Toxicity to daphnia and other aquatic invertebrates:

Comments: No data available

Constituents:

Naphtha (petroleum), hydrotreated heavy; low boiling point hydrogen treated naphtha:

Toxicity to fish:

LL50 (Fish): > 10 - < 30 mg/l

Exposure time: 96 h

Method: Guideline test OECD 203

GLP: yes

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (large water flea)): > 22 - < 46 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/water plants:

EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

12.2 Persistence and Degradability:

Product:

Biodegradability:

Comments: No data available

Physicochemical removability:

Comments: No data available

Constituents:

Naphtha (petroleum), hydrotreated heavy; low boiling point hydrogen treated naphtha:

Biodegradability:

Result: Readily biodegradable.

Method: Guideline test OECD 301F

GLP: yes

Comments: Readily biodegradable as shown by appropriate OECD test.

12.3 Bioaccumulation:

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Product:

Bioaccumulation:

Comments: No data available

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

Product:

Assessment:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment:

The substance/mixture does not contain components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

12.7 Other Harmful Effects:

Product:

Additional ecological information:

Remarks: There is a risk of environmental damage if this substance is handled or disposed of improperly.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Product:

According to local and national regulations.

Container dangerous when empty.

Do not dispose together with household waste.

Do not mix streams during waste collection.

Contaminated packaging:

Empty containers should be taken to local recycling plants for disposal.

SECTION 14: Information relating to transport

14.1 UN number

ADR/RID/ADN: UN 1950

IMDG: UN 1950

IATA: UN 1950

14.2 Proper cargo name according to UN model regulations

ADR/RID/ADN: AEROSOLEN

IMDG: AEROSOLS

IATA: Aerosols, flammable

14.3 Transport hazard class(es)

ADR/RID/ADN: 2.1

IMDG: 2.1

IATA: 2.1

14.4 Packing group

ADR/RID/ADN

Packaging group: not assigned by regulations

Labels: 2.1

Tunnel restriction code: D

IMDG

Packaging group: not assigned by regulations

Labels: 2.1

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EmS Code: F-D, S-U
Notes: IMDG Code segregation group - none

IATA (cargo)

Packing requirement (cargo aircraft): 203
Packaging requirement (LQ): Y203
Packaging group: not assigned by regulation
Labels: Flammable Gas

IATA (Passenger)

Packing requirement (passenger aircraft): 203
Packaging requirement (LQ): Y203
Packaging group: Not assigned by regulations
Labels: Flammable Gas

14.5 Environmental hazards

ADR/RID/AND

Environmental hazard: yes

IMDG

Marine pollution: yes

IATA

Environmentally hazardous: yes

14.6 Special precautions for the user

Notes:

The transport of dangerous goods, including loading and unloading, must be carried out in accordance with regulations by personnel who have received the necessary training.

The transport classification(s) given herein are for information only, and based solely on the properties of the unpackaged material as described in this safety data sheet. Transport classifications may vary in terms of mode of transport, size of packaging and variations in regional or national regulations.

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

Not applicable for product, as delivered.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII):

Restriction conditions for the following dates should be considered:

toluene (Number on the list: 48)

REACH - Candidate list of substances of very high concern for authorisation (Article 59):

Not applicable

Regulation (EC) No 1005/2009 on ozone-depleting substances:

Not applicable

Regulation (EE) 2019/1021 on persistent organic pollutants (recast):

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals:

Not applicable

REACH - List of substances subject to authorisation (Annex XIV):

Not applicable

REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors:

Not applicable

Overviews of toxic chemicals and precursor (intermediate) compounds of the International Convention on Chemical Weapons ("International Chemical Weapons Convention (CWC)":

Not applicable

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Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P3a

FLAMMABLE AEROSOLS

E2

ENVIRONMENT

Other regulations:

As for the composition of the product, we deliberately do not add any of the substances indicated in European Directive 2011/65/EU (RoHS 2, RoHS3 and China RoHS).

The product therefore complies with the said guidelines.

Also, no conflict minerals are deliberately added to the product.

15.2 Chemical safety assessment:

Not applicable.

SECTION 16: Other information

Full text of the H statements

H220:	Extremely flammable gas.
H225:	Highly flammable liquid and vapour.
H226:	Flammable liquid and vapour.
H280:	Contains gas under pressure; may explode if heated.
H304:	May be fatal if swallowed and enters airways.
H315:	Causes skin irritation.
H336:	May cause drowsiness or dizziness.
H361d:	Suspected of damaging the unborn child.
H373:	May cause damage to organs through prolonged or repeated exposure.
H411:	Toxic to aquatic organisms with long-lasting effects.
H412:	Harmful to aquatic life with long lasting effects.
EUH066:	Repeated exposure may cause dry or cracked skin.

Full text of other abbreviations

Aquatic Chronic:	(Chronic) Aquatic long-term hazard
Asp. Tox:	Aspiration hazard
Flam. Gas:	Flammable gases
Flam. Liq:	Flammable liquids
Press. Gas:	Gases under pressure
Repr:	Reproductive toxicity
Skin Irrit:	Skin corrosion/irritation
STOT RE:	Specific target organ toxicity - repeated exposure
STOT SE:	Specific target organ toxicity - single exposure
2006/15/EC:	Indicative occupational exposure limit values
BE OEL:	Occupational exposure limits
2006/15/EC / TWA:	Limit values - 8 hours
2006/15/EC / STEL:	Limit value for short-term exposure
BE OEL / TGG 8 hr:	Limit value
BE OEL / TGG 15 min:	Short-time value

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Association for the Testing of Materials; bw - Body

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Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of substances used indoors (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Inventory of Chemical Substances; TECL - Inventory of Chemical Substances Existing in Thailand; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice:

Provide proper information, instruction and training for users.

Classification of the preparation:

Classification procedure:

Aerosol 1	H222, H229	Calculation method
Skin Irrit. 2	H315	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 2	H411	Calculation method
Eye Irrit. 2	H319	Calculation method

The information in this safety data sheet is correct to the best of our knowledge at the date of issue indicated. This information is intended only as guidance for safe handling, use, processing, storage, transportation, disposal, and release, and should not be considered a guarantee or indication of quality.