

Safety Data Sheet

according to UK REACH Regulation

N,N'-Diisopropylcarbodiimide

Revision date: 08.10.2024

Product code: RL-1015

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

N,N'-Diisopropylcarbodiimide

Further trade names

N,N'-methanetetraylbis(1-methylethylamine)

DIC

1,3-diisopropylcarbodiimide

Diizopropylcarbodiimide

N,N'-Di(Propan-2-yl)methanediimine

N,N'-Diisopropylcarbodiimid

N,N'-Methanetetraylbis(1-methylethylamine)

Diisopropylmethanediimine

Substance name: N,N'-Diisopropylcarbodiimide
Abbreviation: DIC
REACH Registration Number: 01-2120754999-28-XXXX
CAS No: 693-13-0
EC No: 211-743-7

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

Laboratory chemical. Manufacture of the substance.

Uses advised against

Do not use for private purposes (household).

Restrictions on use: Pharmaceutical substance

1.3. Details of the supplier of the safety data sheet

Company name: Iris Biotech GmbH
Street: Adalbert-Zoellner-Straße 1
Place: D-95615 Marktredwitz, Germany
Post-office box: 568
D-95605 Marktredwitz, Germany
Telephone: +49 9231 97121 0
Telefax: +49 9231 97121 99
E-mail: info@iris-biotech.de
Contact person: Health & Safety Department
Telephone: +49 9231 97121 0
E-mail: sds@iris-biotech.de
Internet: www.iris-biotech.de
Responsible Department: Only available during office hours.

1.4. Emergency telephone number: +49 (0)89 19240 (POISON CENTER Munich: 24 h)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Liq. 3; H226

Acute Tox. 2; H330

Skin Irrit. 2; H315

Eye Dam. 1; H318

Resp. Sens. 1; H334

Skin Sens. 1; H317

STOT SE 3; H335

Aquatic Acute 1; H400 (M-Factor (self-classification) = 1)

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Aquatic Chronic 1; H410 (M-Factor (self-classification) = 1)

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation**

Signal word: Danger

Pictograms:

**Hazard statements**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P391	Collect spillage.

Additional advice on labelling

Warning - substance not yet tested completely.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:

**Hazard statements**

H317-H318-H330-H334

Precautionary statements

P280-P304+P340-P305+P351+P338-P310-P342+P311

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.1. Substances****Chemical characterization**

N,N'-methanetetraylbis(1-methylethylamine)

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Sum formula: C₇H₁₄N₂
Molecular weight: 126,20 g/mol

Relevant ingredients

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
693-13-0	N,N'-Diisopropylcarbodiimide			<= 100 %
	211-743-7		01-2120754999-28-XXXX	
	Flam. Liq. 3, Acute Tox. 2, Skin Irrit. 2, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H226 H330 H315 H318 H334 H317 H335 H400 H410			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
693-13-0	211-743-7	N,N'-Diisopropylcarbodiimide	<= 100 %
	inhalation: ATE = 0,5 mg/l (vapours); inhalation: LC50 = 0,13 mg/l (dusts or mists) Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1		

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. After contact with skin, wash immediately with plenty of water and soap.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

In all cases of doubt, or when symptoms persist, seek medical advice.

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

May produce an allergic reaction. May cause respiratory irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

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5.1. Extinguishing media**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. alcohol resistant foam. Dry extinguishing powder. Carbon dioxide (CO₂). Sand.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. Thermal decomposition can lead to the escape of irritating gases and vapours.

Vapours are heavier than air and may spread along floors.

Reignition possible over considerable distance.

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrogen oxides (NO_x).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Usual measures for fire prevention.

Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear personal protection equipment.

Remove all sources of ignition.

Vapours are heavier than air. Vapours can form explosive mixtures with air.

For non-emergency personnel

Do not breathe gas/fumes/vapour/spray.

Avoid substance contact.

Provide adequate ventilation.

Keep away from sources of ignition - No smoking.

Evacuate the danger area, observe emergency procedures, consult an expert.

Personal protection equipment: see section 8

For emergency responders

Cover drains.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**For containment**

Cover drains.

Stop and contain spill/release if it can be done safely.

For cleaning up

Universal binder/ Binder

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Take up mechanically, placing in

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appropriate containers for disposal.
Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13 Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes. Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Further information on handling

Protect from light!
Store under dry inert gas.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Handle and store contents under inert gas. Protect from moisture. Protect from light! Containers which are opened carefully and kept upright to prevent leakage. storage temperature: +2°C - +8°C

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Keep locked up or only accessible to experts or their representatives.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls

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**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear eye protection/face protection.

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin protection

Wear suitable protective clothing. Combinaison complète de protection contre les produits chimiques, Le type d'équipement de protection doit être sélectionné en fonction de la concentration et de la quantité de la substance dangereuse. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

Flammable Liquids, Category 3

Environmental exposure controls

Do not allow to enter into surface water or drains.
Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid, clear	
Colour:	colourless/ light yellow	
Odour:	stinging	
Odour threshold:	not determined	
Melting point/freezing point:		not determined

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Boiling point or initial boiling point and boiling range:	145-148 °C
Flammability:	not applicable
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	31 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	No data available
Viscosity / kinematic:	No data available
Water solubility:	No data available
Solubility in other solvents	No data available
Dissolution rate:	not determined
Partition coefficient n-octanol/water:	No data available
Dispersion stability:	not determined
Vapour pressure:	6,8 hPa
(at 25 °C)	
Density (at 20 °C):	0,815 g/cm ³
Relative density:	No data available
Bulk density:	not applicable
Relative vapour density:	No data available
Particle characteristics:	not applicable

9.2. Other information
Information with regard to physical hazard classes

Explosive properties	No data available
Sustaining combustion:	Sustaining combustion
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Oxidizing properties	No data available

Other safety characteristics

Evaporation rate:	No data available
Solvent separation test:	No data available
Solvent content:	No data available
Solid content:	not determined
Sublimation point:	not determined
Softening point:	not determined
Viscosity / dynamic:	No data available
Flow time:	No data available

SECTION 10: Stability and reactivity
10.1. Reactivity

Flammable.
 Can form explosive gas-air mixtures.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available

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10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Protect from moisture.
 Keep away from heat.
 Protect from light!

10.5. Incompatible materials

Oxidizing agents, strong., Acid.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.
 In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrogen oxides (NO_x).

Further information

In case of fire: See chapter 5.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in GB CLP Regulation
Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

Fatal if inhaled.
 LD50 intravenous - Mouse: 36 mg/kg
 Symptoms: Nausea. vomiting. Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
693-13-0	N,N'-Diisopropylcarbodiimide				
	inhalation vapour	ATE 0,5 mg/l			
	inhalation (4 h) dust/mist	LC50 0,13 mg/l	Rat		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.
 Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (N,N'-Diisopropylcarbodiimide)
 May cause an allergic skin reaction. (N,N'-Diisopropylcarbodiimide)

Carcinogenic/mutagenic/toxic effects for reproduction

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.
 Germ cell mutagenicity
 Mutagenicity (mammalian cell test):
 Result: positive
 Notes literature value

Ames test
 Result: Ames test negative.
 Notes literature value

STOT-single exposure

May cause respiratory irritation. (N,N'-Diisopropylcarbodiimide)

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STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No data available

Practical experience

After absorption: Headache.

11.2. Information on other hazards
Endocrine disrupting properties

No data available

Other information

 Serious eye damage/eye irritation, Nausea, Headache. vomiting. Corneal opacity. Risk of blindness!
 Symptoms may be delayed.

After absorption: Headache.

Further information

RTECS: FF2175000

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated. Other dangerous properties can not be excluded.

This substance should be handled with particular care.

SECTION 12: Ecological information
12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
693-13-0	N,N'-Diisopropylcarbodiimide					
	Acute algae toxicity	ErC50 mg/l	ca. 1,52	96 h	Desmodesmus subspicatus	Study report (2017) QSAR
	Acute crustacea toxicity	EC50 mg/l	ca. 0,91	48 h	Daphnia magna	REACH Registration Dossier QSAR

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
693-13-0	N,N'-Diisopropylcarbodiimide	ca. 4,11

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

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12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Warning - substance not yet tested completely.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation.

Consult the appropriate local waste disposal expert about waste disposal.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 2929

14.2. UN proper shipping name:TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
(N,N'-Diisopropylcarbodiimide)**14.3. Transport hazard class(es):**

6.1

14.4. Packing group:

I

Hazard label:

6.1+3



Classification code:

TF1

Special Provisions:

274 315

Limited quantity:

0

Excepted quantity:

E5

Transport category:

1

Hazard No:

663

Tunnel restriction code:

C/D

Inland waterways transport (ADN)**14.1. UN number or ID number:**

UN 2929

14.2. UN proper shipping name:TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
(N,N'-Diisopropylcarbodiimide)**14.3. Transport hazard class(es):**

6.1

14.4. Packing group:

I

Hazard label:

6.1+3



Classification code:

TF1

Special Provisions:

274 315 802

Limited quantity:

0

Excepted quantity:

E5

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Marine transport (IMDG)

14.1. UN number or ID number:	UN 2929
14.2. UN proper shipping name:	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (N,N'-Diisopropylcarbodiimide)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	I
Hazard label:	6.1+3
	 
Special Provisions:	274, 315
Limited quantity:	0
Excepted quantity:	E5
EmS:	F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 2929
14.2. UN proper shipping name:	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (N,N'-Diisopropylcarbodiimide)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	I
Hazard label:	6.1+3
	 
Special Provisions:	A4 A137
Limited quantity Passenger:	Forbidden
Passenger LQ:	Forbidden
Excepted quantity:	E5
IATA-packing instructions - Passenger:	652
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	658
IATA-max. quantity - Cargo:	30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: N,N'-Diisopropylcarbodiimide

14.6. Special precautions for user

Warning: Combustible liquid. Toxic.

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
EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Directive 2010/75/EU on industrial emissions: 100 % (815 g/l)

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Directive 2004/42/EC on VOC in paints and varnishes: 100 % (815 g/l)
Information according to Directive 2012/18/EU (SEVESO III): H2 ACUTE TOXIC
Additional information: P5c, E1

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

Additional information

German Chemicals Prohibition Ordinance (ChemVerbotsV): The substance is subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).
The disposal of this product requires the expertise resp. an annual instruction according to ChemVerbotsV.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,9,11,12,14,15,16.

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Abbreviations and acronyms

Flam. Liq: Flammable liquids
Acute Tox: Acute toxicity
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Resp. Sens: Respiratory sensitisation
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.

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H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.