

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NMP

Revision date: 24.04.2020

Product code: SOL-009

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

NMP

Further trade names

N-Methyl Pyrrolidon
1-Methyl-2-pyrrolidone
1-Methylazacyclopentan-2-one

Abbreviation: NMP
REACH Registration Number: 01-2119472430-46-XXXX
CAS No: 872-50-4
Index No: 606-021-00-7
EC No: 212-828-1

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

Laboratory chemical.

Uses advised against

Do not use for private purposes (household).

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: Compliance 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)**Further Information**

Emergency telephone: 24 h (POISON CENTER Munich)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:
Reproductive toxicity: Repr. 1B
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3
Hazard Statements:
May damage the unborn child.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

2.2. Label elements

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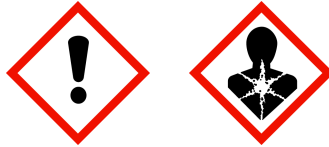
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Regulation (EC) No. 1272/2008
Signal word: Danger

Pictograms:

Hazard statements

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H360D May damage the unborn child.

Precautionary statements

P201 Obtain special instructions before use.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P302+P352 IF ON SKIN: Wash with plenty of Water and soap.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P501 Dispose of contents/container to an approved disposal site.

Special labelling of certain mixtures

Restricted to professional users.

Additional advice on labelling

Warning - substance not yet tested completely.

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-Methyl Pyrrolidon

 Sum formula: C₅H₉NO

Molecular weight: 99.13 g/mol

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
872-50-4	N-methyl-2-pyrrolidone			<= 100 %
	212-828-1	606-021-00-7	01-2119472430-46-XXXX	
	Repr. 1B, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H360D H315 H319 H335			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
872-50-4	212-828-1	N-methyl-2-pyrrolidone	<= 100 % %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 4150 mg/kg STOT SE 3; H335: >= 10 - 100	

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

In case of accident or if you feel unwell, seek medical advice immediately (show this label if possible). Call a doctor if you feel unwell.

After inhalation

Provide fresh air. Medical treatment necessary.

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

In case of irregular breathing or respiratory arrest provide artificial respiration. In case of breathing difficulties administer oxygen. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. Remove victim out of the danger area. Take off immediately all contaminated clothing. Wash with plenty of water. Call a physician immediately.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. 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

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

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

Following inhalation:

Irritation to respiratory tract. Headache.

after ingestion:

Irritant. Diarrhea. Nausea. vomiting.

After skin contact:

Causes skin irritation.

Following eye contact:

Causes eye irritation. May cause blurred vision and serious eye damage.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

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.

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5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air. 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).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Collect, bind, and pump off spills. Contaminated fire-fighting water must be collected separately.

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.

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Evacuate the danger area, observe emergency procedures, consult an expert. Keep away from sources of ignition - No smoking.

Provide adequate ventilation as well as local exhaust at critical locations. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protection equipment: see section 8

Do not wear contact lenses.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up**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. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. This material and its container must be disposed of as hazardous waste. Keep away from sources of ignition - No smoking.

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. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothes. Körperschutzmittel sind in ihrer

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Ausführung in Abhängigkeit von Gefahrstoffkonzentration und -menge arbeitsplatzspezifisch auszuwählen.
 Die Chemikalienbeständigkeit der Schutzmittel sollte mit deren Lieferanten abgeklärt werden.
 Wash hands before breaks and after work. Avoid contact during pregnancy and while nursing.

Advice on protection against fire and explosion

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, drink, smoke, sniff. 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. Avoid contact during pregnancy and while nursing.

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 exhaust at critical locations. Keep away from food, drink and animal feedingstuffs. Keep away from sources of ignition - No smoking. Keep only in the original container in a cool, well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Protect from sunlight. Store away from oxidising agents.
 storage temperature: room temperature

Hints on joint storage

No special measures are necessary.

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
Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	Category	Origin
872-50-4	n-Methyl-2-pyrrolidone	10	40		TWA (8 h)	
		20	80		STEL (15 min)	

DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
872-50-4	N-methyl-2-pyrrolidone			
	Worker DNEL, long-term	inhalation	systemic	14,4 mg/m ³
	Worker DNEL, long-term	inhalation	local	40 mg/m ³
	Worker DNEL, long-term	dermal	systemic	4,8 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	3,6 mg/m ³
	Consumer DNEL, long-term	inhalation	local	4,5 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	2,4 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	0,85 mg/kg bw/day

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PNEC values

CAS No	Name of agent	
Environmental compartment		Value
872-50-4	N-methyl-2-pyrrolidone	
Freshwater		0,25 mg/l
Freshwater (intermittent releases)		5 mg/l
Marine water		0,025 mg/l
Freshwater sediment		1,09 mg/kg
Marine sediment		0,109 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,07 mg/kg

Additional advice on limit values

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

8.2. Exposure controls

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

Suitable eye protection: goggles. Wear eye/face protection.

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.

Skin protection

Use of protective clothing. Wear suitable protective 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.

Environmental exposure controls

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
Colour:	colourless
Odour:	amin-like, disagreeable

Test method

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Changes in the physical state

Melting point/freezing point:	-24 °C
Boiling point or initial boiling point and boiling range:	204,3 °C 760 mm Hg
Sublimation point:	not determined
Softening point:	not determined
Flash point:	91 °C

Flammability

Solid/liquid:	not applicable
Gas:	not applicable

Explosive properties

The product is not: Explosive. The product is not explosive.

Auto-ignition temperature:	245 °C
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Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	>300 °C
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pH-Value (at 20 °C):	7,7 - 8 (10 %) 100 g/l
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Viscosity / dynamic: (at 25 °C)	1,65 mPa·s
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Water solubility: (at 25 °C)	completely miscible
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Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	-0,38
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Vapour pressure: (at 20 °C)	0,32 hPa
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Vapour pressure: (at 50 °C)	0,32 hPa
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Density (at 25 °C):	1,03 g/cm ³
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Bulk density:	not applicable
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Relative vapour density:	3,42 Air = 1.0
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9.2. Other information**Information with regard to physical hazard classes**

Sustaining combustion:	No data available
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Oxidizing properties	
No data available	

Other safety characteristics

Solvent content:	100,00 %
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Solid content:	not determined
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Evaporation rate:	not determined
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Further Information

Surface tension: 40,4 mN/m	
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SECTION 10: Stability and reactivity

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10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Protect from moisture. Keep away from heat. Protect from sunlight. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

 Strong acid. Alkalis (alkalis). Oxidizing agents, strong.
 Reducing agents, strong.

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 Regulation (EC) No 1272/2008
Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
872-50-4	N-methyl-2-pyrrolidone				
	oral	LD50 mg/kg 4150	Rat	Fd. Chem. Toxicol. 26, No. 5: 475-479 (1)	OECD Guideline 401
	dermal	LD50 mg/kg > 5000	Rat	Int. Res. Comm. System Med. Sci. 12: 296	OECD Guideline 402

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Skin corrosion/irritation

Skin - rabbit.

Result: Irritant

OECD 404

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

Serious eye damage/eye irritation

eyes - Rabbit.

Result: Causes eye irritation.

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Sensitising effects

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

Respiratory or skin sensitisation.

Guinea pig

Result: negative

(IUCLID)

Patch-Test - human

Result: negative

(IUCLID)

Carcinogenic/mutagenic/toxic effects for reproduction

May damage the unborn child. (N-methyl-2-pyrrolidone)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Germ cell mutagenicity:

Ames test negative.

Salmonella typhimurium

OECD 471 (Ames test)

In vitro mutagenicity/genotoxicity:

Mammalian cells

Result: negative

OECD 474

Mouse - male + female - Medulla ossium

Result: negative

Reproductive toxicity:

Suspected human reproductive toxicant. May damage the unborn child.

STOT-single exposure

May cause respiratory irritation. (N-methyl-2-pyrrolidone)

STOT-repeated exposure

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

Depression of the central nervous system. Organs affected: Possible effects: liver damage, kidney damage.

Aspiration hazard

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

Specific effects in experiment on an animal

No data available

Additional information on tests

Special hazards arising from the substance or mixture. Classification according to Regulation (EC) No 1272/2008 [CLP]: health hazard properties.

Practical experience

No data available

11.2. Information on other hazards**Other information**

Depression of the central nervous system.

Further information

RTECS: UY5790000

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Warning - substance not yet tested completely.
 Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
872-50-4	N-methyl-2-pyrrolidone					
	Acute fish toxicity	LC50 mg/l	> 500	96 h	Oncorhynchus mykiss	Study report (1983) other: Static fish toxicity test accordi
	Acute algae toxicity	ErC50 mg/l	600,5	72 h	Desmodesmus subspicatus	Study report (1989) other: German Industrial Standard DIN 38
	Acute crustacea toxicity	EC50 mg/l	ca. 4897	48 h	Daphnia magna	IUCLID
	Crustacea toxicity	NOEC mg/l	12,5	21 d	Daphnia magna	Study report (2001) OECD Guideline 211
	Acute bacteria toxicity	(> 600 mg/l)		0,5 h	activated sludge, industrial	Study report (1987) ISO 8192

12.2. Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
872-50-4	N-methyl-2-pyrrolidone			
	Biological degradation: Degradability aerobic.	73 %	28	OECD 301C
	Biochemical oxygen demand (BCB)	1,100 mg/g		
	Chemical oxygen demand (COD)	1,600 mg/g		

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
872-50-4	N-methyl-2-pyrrolidone	-0,46

12.4. Mobility in soil

The product is water soluble. May spread in water systems.

12.5. Results of PBT and vPvB assessment

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.

12.7. Other adverse effects

Warning - substance not yet tested completely.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
Consult the appropriate local waste disposal expert about waste disposal.
Handle contaminated packages in the same way as the substance itself.

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

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**

Authorisations (REACH, annex XIV):

This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30

2010/75/EU (VOC): 100 % (1030 g/l)

2004/42/EC (VOC): 100 % (1030 g/l)

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

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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): 1 - slightly hazardous to water

15.2. Chemical safety assessment

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

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SECTION 16: Other information**Abbreviations and acronyms**

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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
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
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
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)
IMDG: International Maritime Code for Dangerous Goods
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
VOC: Volatile Organic Compounds
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)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.

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.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.