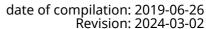
acc. to Regulation (EC) No. 1907/2006 (REACH)

### Methanol D1 99,5 Atom%D

article number: HN86 Version: **3.0 en** 

Replaces version of: 2022-08-03

Version: (2)



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

#### **Product identifier** 1.1

Identification of the substance Methanol D1 99,5 Atom%D

Article number HN86

EC number 215-933-0 CAS number 1455-13-6

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes (household). Food, drink and animal feeding-

stuffs.

#### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de Website: www.carlroth.de

sheet:

sicherheit@carlroth.de e-mail (competent person):

#### 1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1

Classification acc. to GHS

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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	, ,		Flam. Liq. 2	H225
3.10			Acute Tox. 3	H301
3.1D			Acute Tox. 3	H311
3.1I	Acute toxicity (inhal.)		Acute Tox. 3	H331
3.8	Specific target organ toxicity - single exposure	1	STOT SE 1	H370

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

Immediate effects can be expected after short-term exposure. The product is combustible and can be ignited by potential ignition sources.

### 2.2 Label elements

#### Labelling

Signal word Danger

### **Pictograms**

GHS02, GHS06, GHS08







### **Hazard statements**

H225 Highly flammable liquid and vapour

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled Causes damage to organs (respiratory tract)

### **Precautionary statements**

### **Precautionary statements - prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking

P280 Wear protective gloves/eye protection

### **Precautionary statements - response**

P302+P352 IF ON SKIN: Wash with plenty of water

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor

P310 Immediately call a POISON CENTER/doctor

### 2.3 Other hazards

### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  0,1%.

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## **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Name of substance Methanol D1 Molecular formula  $CH_3OD$  Molar mass  $33,05\,^g/_{mol}$  CAS No 1455-13-6 EC No 215-933-0

### Substance, Specific Conc. Limits, M-factors, ATE

Specific Conc. Limits	M-Factors	ATE	Exposure route
-	-	300 <sup>mg</sup> / <sub>kg</sub> 1.000 <sup>mg</sup> / <sub>kg</sub> 10 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: vapour

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



#### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

### Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

#### Following skin contact

After contact with skin, wash immediately with plenty of water.

#### Following eve contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Has degreasing effect on the skin, Headaches and dizziness may occur, proceeding to fainting or unconsciousness; large doses may result in coma and death, Loss of righting reflex, and ataxia, Spasms, Irritation,

Following ingestion: Abdominal pain, Nausea, Vomiting, Following inhalation: Cough, After eye contact: Conjunctival redness of the eyes, Conjunctivitis (pink eye), Impairment of vision

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

none

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### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

water jet

### 5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air

### **Hazardous combustion products**

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures



### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

### **6.2** Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

### Advice on how to contain a spill

Covering of drains.

### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Use extractor hood (laboratory). Handle and open container with care. Clear contaminated areas thoroughly.

### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

### Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product. When using do not smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

#### **Incompatible substances or mixtures**

Observe hints for combined storage.

#### Consideration of other advice:

Store locked up. Ground/bond container and receiving equipment.

### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

### **National limit values**

### Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

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### 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

### **Eye/face protection**





Use safety goggle with side protection.

### Skin protection





### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### type of material

Butyl caoutchouc (butyl rubber)

#### material thickness

0,7mm

### · breakthrough times of the glove material

>480 minutes (permeation: level 6)

### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

### **Respiratory protection**





Respiratory protection necessary at: Aerosol or mist formation. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

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acc. to Regulation (EC) No. 1907/2006 (REACH)

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## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state liquid

Colour colourless
Odour alcohol
Melting point/freezing point -98 °C

Boiling point or initial boiling point and boiling

range

Flammability

flammable liquid in accordance with GHS criteria

Lower and upper explosion limit 6 vol% (LEL) - 36,5 vol% (UEL)

65°C

Flash point 9 °C

Auto-ignition temperature 440 °C

Decomposition temperature not relevant

pH (value) not determined

Kinematic viscosity  $0,7407 \, ^{\text{mm}^2} /_{\text{s}}$  at 20 °C

Dynamic viscosity 0,6 mPa s at 20 °C

Solubility(ies)

Water solubility not determined

Partition coefficient

Partition coefficient n-octanol/water (log value): -0,77

Vapour pressure 129 hPa at 20 °C

Density and/or relative density

Density  $0.81 \, \mathrm{g}_{\mathrm{cm}^3}$ 

Relative vapour density 1,11 (air = 1)

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

There is no additional information.

Other safety characteristics:

Refractive index 1,327

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### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

It's a reactive substance. Risk of ignition. Vapours may form explosive mixtures with air.

#### If heated

Risk of ignition.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

**Danger of explosion:** strong oxidiser, Perchlorates, Chlorates, Magnesium, Nitric acid, Hydrogen peroxide

Exothermic reaction with: Reducing agent, Chloroform, Acids

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

different plastics, zinc

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Classification acc. to GHS

#### **Acute toxicity**

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
	C	oral LD0: 143 mg/kg	Mensch (TOXNET	Γ)	

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

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### Specific target organ toxicity - single exposure

Causes damage to organs (respiratory tract).

Hazard category	Target organ	Exposure route
1	respiratory tract	if exposed

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

### If swallowed

vomiting, abdominal pain, risk of blindness, large doses may result in coma and death, poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness, loss of righting reflex, and ataxia

### • If in eyes

conjunctivitis (pink eye)

#### If inhaled

cough, headache

#### If on skin

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation)

### Other information

none

### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  0,1%.

### 11.3 Information on other hazards

There is no additional information.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

Theoretical Oxygen Demand: 1,5  $^{9}$ / $_{g}$  Theoretical Carbon Dioxide: 1,332  $^{mg}$ / $_{mg}$ 

Process of degradability		
Process	Degradation rate	Time
hiotic/abiotic	99 %	30 Y

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

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acc. to Regulation (EC) No. 1907/2006 (REACH)



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n-octanol/water (log KOW)	-0,77
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### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  0,1%.

#### 12.7 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Sewage disposal-relevant information

Do not empty into drains.

### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### Properties of waste which render it hazardous

**HP3** flammable

**HP 5** specific target organ toxicity (STOT)/aspiration toxicity

**HP 6** acute toxicity

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADRRID UN 1230 IMDG-Code UN 1230 ICAO-TI UN 1230

14.2 UN proper shipping name

ADRRID METHANOL

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acc. to Regulation (EC) No. 1907/2006 (REACH)

### Methanol D1 99,5 Atom%D

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 <b>-</b> (1 11 ( )	
ICAO-TI	Methanol
IMDG-Code	METHANOL

#### 14.3 Transport hazard class(es)

ADRRID	3 (6.1)
IMDG-Code	3 (6.1)
ICAO-TI	3 (6.1)

### 14.4 Packing group

ADRRID	II
IMDG-Code	II
ICAO-TI	II

#### 14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

#### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

#### Maritime transport in bulk according to IMO instruments 14.7

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

## Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional

**METHANOL** 

Particulars in the transport document UN1230, METHANOL, 3 (6.1), II, (D/E)

Classification code FT1 Danger label(s) 3+6.1





Proper shipping name

Special provisions (SP) 279, 802(ADN)

Excepted quantities (EQ) F2 Limited quantities (LQ) 1 L 2 Transport category (TC) Tunnel restriction code (TRC) D/E Hazard identification No 336 2WE **Emergency Action Code** 

#### Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

**Classification code** FT1 Danger label(s) 3+6.1





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### Methanol D1 99,5 Atom%D

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Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L
Transport category (TC) 2
Hazard identification No 336

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name METHANOL

Particulars in the shipper's declaration UN1230, METHANOL, 3 (6.1), II, 9°C c.c.

Marine pollutant -

Danger label(s) 3+6.1





Special provisions (SP) 279

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category B

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Methanol

Particulars in the shipper's declaration UN1230, Methanol, 3 (6.1), II

Danger label(s) 3+6.1





Special provisions (SP) A113
Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

#### **Seveso Directive**

2012/18/EU (Seveso III)					
No	Dangerous substance/hazard categories		(tonnes) for the ap- and upper-tier re- ments	Notes	
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50	200	41)	
НЗ	STOT specific target organ toxicity - single exposure (cat. 1)	50	200	42)	

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#### Notation

- Category 2, all exposure routes - category 3, inhalation exposure route STOT SE category 1 41)

#### **Deco-Paint Directive**

VOC content	100 %

### **Industrial Emissions Directive (IED)**

VOC content	100 %
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

not listed

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

Restrictions according to GB REACH, Annex 17

## Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
Methanol D1	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3
Methanol D1	flammable / pyrophoric		40

### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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### **National inventories**

Country	Inventory	Status
AU	AIIC	substance is listed
EU	ECSI	substance is listed
NZ	NZIoC	substance is listed
TW	TCSI	substance is listed
VN	NCI	substance is listed

Legend

Australian Inventory of Industrial Chemicals EC Substance Inventory (EINECS, ELINCS, NLP) National Chemical Inventory New Zealand Inventory of Chemicals Taiwan Chemical Substance Inventory AIIC ECSI

NCI NZIoC TCSI

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

## **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1		National inventories: change in the listing (table)	yes

### **Abbreviations and acronyms**

Abbit eviations and defonying		
Abbr.	Descriptions of used abbreviations	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)	
ATE	Acute Toxicity Estimate	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
ED	Endocrine disruptor	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	

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Abbr.	Descriptions of used abbreviations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LEL	Lower explosion limit (LEL)
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs (respiratory tract).

### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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