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

#### Nitro thinner technical

article number: **3036** Version: **4.0 en** Replaces version of: 2021-08-18 Version: (3)

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

#### 1.1 Product identifier

Identification of the substance

Article number

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

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Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

#### **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

Competent person responsible for the safety data :Department Health, Safety and Environment sheet:

#### e-mail (competent person):

#### sicherheit@carlroth.de

#### 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**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	2	Flam. Liq. 2	H225
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation		Eye Irrit. 2	H319
3.7	Reproductive toxicity		Repr. 2	H361fd
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336



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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.9	Specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
3.10	Aspiration hazard	1	Asp. Tox. 1	H304
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

#### Supplemental hazard information

Code	Supplemental hazard information
EUH066	repeated exposure may cause skin dryness or cracking

For full text of abbreviations: see SECTION 16

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

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

Labelling

Signal word Danger

#### **Pictograms**

GHS02, GHS07, GHS08



#### **Hazard statements**

H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child (if in- haled)
H373	May cause damage to organs (nervous system) through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

#### **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**

P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting
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

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Precautionary sta	Precautionary statements - storage				
P403+P233	Store in a well-ventilated place. Keep container tightly closed				

For professional users only

#### Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazardous ingredients for labelling:

Hydrocarbons,  $C_6$ , n-alkanes, iso-alkanes, cyclics, 5-60% n-hexane, Acetone, Acetic acid ethyl ester

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

#### Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Acetic acid ethyl ester	CAS No 141-78-6 EC No 205-500-4	25 - 50	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066		GHS-HC IOELV
Acetone	CAS No 67-64-1 EC No 200-662-2	25 - 50	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066		GHS-HC IOELV
Hydrocarbons, C <sub>€</sub> , n- alkanes, iso-alkanes, cyclics, 5-60% n-hex- ane	CAS No 64742-49-0 EC No 925-292-5	< 20	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361fd STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		IOELV
Tetrahydrofuran	CAS No 109-99-9 EC No 203-726-8	<1	Flam. Liq. 2 / H225 Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Carc. 2 / H351 STOT SE 3 / H335 EUH019		GHS-HC IARC: 2B IOELV
Dichloromethane	CAS No 75-09-2 EC No 200-838-9	<1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Carc. 2 / H351 STOT SE 3 / H336	(!)	GHS-HC IARC: 2A IOELV

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ 2008/EC, Annex VI)

IARC: IARC group 2A: probably carcinogenic to humans (International Agency for Research on Cancer) 2A:

IARC: IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer) 2B:

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#### Notes

IOELV: Substance with a community indicative occupational exposure limit value

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Tetrahydrofuran	CAS No 109-99-9	Eye Irrit. 2; H319: C ≥ 25 % STOT SE 3; H335: C ≥ 25 %	-	1.650 <sup>mg</sup> / <sub>kg</sub>	oral
	EC No 203-726-8				

For full text of abbreviations: see SECTION 16

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

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

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

#### Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

#### **Following ingestion**

Call a physician immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Observe aspiration hazard if vomiting occurs.

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

Following inhalation: Dizziness, Drowsiness, Narcosis, Headache, Vertigo, Following skin contact: Irritation, Localised redness, oedema, pruritis and/or pain, After eye contact: Irritation, Following ingestion: Nausea, Aspiration hazard

#### 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 vapourair 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 may form explosive mixtures with air.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO $_2$ ), May produce toxic fumes of carbon monoxide if burning.

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## **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. Danger of explosion.

#### 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

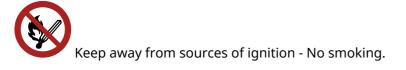
Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Avoid exposure.

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



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

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. 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:

Ground/bond container and receiving equipment.

#### Ventilation requirements

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

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

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	tetrahydrofuran	109-99-9	IOELV	50	150	100	300			Н	2000/39/ EC
EU	n-hexane	110-54-3	IOELV	20	72						2006/15/ EC
EU	ethyl acetate	141-78-6	IOELV	200	734	400	1.468				2017/ 164/EU
EU	acetone	67-64-1	IOELV	500	1.210						2000/39/ EC
EU	methylene chloride (dichloromethane)	75-09-2	IOELV	100	353	200	706			Н	2017/ 164/EU
GB	tetrahydrofuran	109-99-9	WEL	50	150	100	300				EH40/ 2005
GB	n-hexane	110-54-3	WEL	20	72						EH40/ 2005
GB	ethyl acetate	141-78-6	WEL	200	734	400	1.468				EH40/ 2005
GB	acetone	67-64-1	WEL	500	1.210	1.50 0	3.620				EH40/ 2005
GB	dichloromethane	75-09-2	WEL	100	353	200	706				EH40/ 2005

Notation

Ceiling-C

H STEL

Ceiling value is a limit value above which exposure should not occur Absorbed through the skin Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

TWA

#### **Biological limit values**

Coun try	Name of agent	CAS No	Parameter	Nota tion	Identi- fier	Value	Material	Source
GB	dichloromethane	75-09-2	carbon monoxide		BMGV	30 ppm	end-tidal breath	EH40/ 2005

Relevant DNELs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time			
Acetone	67-64-1	DNEL	1.210 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Acetone	67-64-1	DNEL	2.420 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - local ef- fects			
Acetone	67-64-1	DNEL	186 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Acetic acid ethyl es- ter	141-78-6	DNEL	734 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects			

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Relevant DNELs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time			
Acetic acid ethyl es- ter	141-78-6	DNEL	1.468 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - systemic effects			
Acetic acid ethyl es- ter	141-78-6	DNEL	734 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects			
Acetic acid ethyl es- ter	141-78-6	DNEL	1.468 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - local ef- fects			
Acetic acid ethyl es- ter	141-78-6	DNEL	63 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Hydrocarbons, C <sub>6</sub> , n-alkanes, iso-al- kanes, cyclics, 5- 60% n-hexane	64742-49-0	DNEL	93 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Hydrocarbons, C <sub>6</sub> , n-alkanes, iso-al- kanes, cyclics, 5- 60% n-hexane	64742-49-0	DNEL	13 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Dichloromethane	75-09-2	DNEL	706 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - systemic effects			
Dichloromethane	75-09-2	DNEL	176 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Dichloromethane	75-09-2	DNEL	12 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			
Tetrahydrofuran	109-99-9	DNEL	72,4 mg/ m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects			
Tetrahydrofuran	109-99-9	DNEL	96 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - systemic effects			
Tetrahydrofuran	109-99-9	DNEL	150 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - local ef- fects			
Tetrahydrofuran	109-99-9	DNEL	300 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - local ef- fects			
Tetrahydrofuran	109-99-9	DNEL	12,6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects			

#### Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Acetone	67-64-1	PNEC	10,6 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Acetone	67-64-1	PNEC	1,06 <sup>mg</sup> / <sub>l</sub>	aquatic organ- marine water sh isms		short-term (single instance)
Acetone	67-64-1	PNEC	100 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Acetone	67-64-1	PNEC	30,4 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Acetone	67-64-1	PNEC	3,04 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)





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Relevant PNECs of components of the mixture									
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time			
Acetone	67-64-1	PNEC	29,5 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)			
Acetic acid ethyl es- ter	141-78-6	PNEC	1,65 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	water	intermittent re- lease			
Acetic acid ethyl es- ter	141-78-6	PNEC	0,24 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (singl instance)			
Acetic acid ethyl es- ter	141-78-6	PNEC	0,024 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (singl instance)			
Acetic acid ethyl es- ter	141-78-6	PNEC	650 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (singl instance)			
Acetic acid ethyl es- ter	141-78-6	PNEC	1,15 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (singl instance)			
Acetic acid ethyl es- ter	141-78-6	PNEC	0,115 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (singl instance)			
Acetic acid ethyl es- ter	141-78-6	PNEC	0,148 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (singl instance)			
Dichloromethane	75-09-2	PNEC	0,31 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (singl instance)			
Dichloromethane	75-09-2	PNEC	0,031 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (singl instance)			
Dichloromethane	75-09-2	PNEC	26 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (singl instance)			
Dichloromethane	75-09-2	PNEC	2,57 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (singl instance)			
Dichloromethane	75-09-2	PNEC	0,26 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (singl instance)			
Dichloromethane	75-09-2	PNEC	0,33 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (singl instance)			
Tetrahydrofuran	109-99-9	PNEC	67 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	water	short-term (singl instance)			
Tetrahydrofuran	109-99-9	PNEC	4,32 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (singl instance)			
Tetrahydrofuran	109-99-9	PNEC	0,432 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (singl instance)			
Tetrahydrofuran	109-99-9	PNEC	4,6 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (sing instance)			
Tetrahydrofuran	109-99-9	PNEC	23,3 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (singl instance)			
Tetrahydrofuran	109-99-9	PNEC	2,33 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (sing instance)			
Tetrahydrofuran	109-99-9	PNEC	2,13 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (sing instance)			



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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. 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 consider-able 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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## **SECTION 9: Physical and chemical properties**

9.1	1 Information on basic physical and chemical properties							
	Physical state	liquid						
	Colour	colourless - clear						
	Odour	characteristic						
	Melting point/freezing point	-50 °C						
	Boiling point or initial boiling point and boiling range	>56 °C						
	Flammability	flammable liquid in accordance with GHS criteria						
	Lower and upper explosion limit	470 g/m³ (UEL) / 1,8 vol% (LEL) - 13 vol% (UEL)						
	Flash point	-20 °C						
	Auto-ignition temperature	>201 °C (auto-ignition temperature (liquids and gases))						
	Decomposition temperature	not relevant						
	pH (value)	6 – 8						
	Kinematic viscosity	not determined						
	Solubility(ies)							
	Water solubility	not determined						
	Partition coefficient							
	Partition coefficient n-octanol/water (log value):	this information is not available						
	Vapour pressure	230 mbar						
	Density and/or relative density							
	Density	0,8 – 0,88 <sup>g</sup> / <sub>cm³</sub> at 20 °C						
	Relative vapour density	information on this property is not available						
	Particle characteristics	not relevant (liquid)						
	Other sefet - nerometers							
	Other safety parameters							
0.2	Oxidising properties	none						
9.2	Other information							
	Information with regard to physical hazard classes:	There is no additional information.						
	Other safety characteristics:	There is no additional information.						



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

#### 10.1 Reactivity

The mixture contains reactive substance(s). 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

Violent reaction with: strong oxidiser, Perchlorates, Nitric acid, Sulphuric acid, concentrated

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### **Classification acc. to GHS**

#### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture						
Name of substance	CAS No	Exposure route	ΑΤΕ			
Tetrahydrofuran	109-99-9	oral	1.650 <sup>mg</sup> / <sub>kg</sub>			

#### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Acetone	67-64-1	oral	LD50	5.800 <sup>mg</sup> / <sub>kg</sub>	rat
Acetic acid ethyl ester	141-78-6	oral	LD50	5.620 <sup>mg</sup> / <sub>kg</sub>	rat
Acetic acid ethyl ester	141-78-6	dermal	LD50	>20.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
Dichloromethane	75-09-2	oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat
Dichloromethane	75-09-2	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat



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Acute toxicity of components of the mixture								
Name of substance	CAS No	Exposure route	Endpoint	Value	Species			
Tetrahydrofuran	109-99-9	oral	LD50	1.650 <sup>mg</sup> / <sub>kg</sub>	rat			
Tetrahydrofuran	109-99-9	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat			

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### **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**

Suspected of damaging the unborn child (if inhaled). Suspected of damaging fertility (if inhaled).

#### Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

#### Specific target organ toxicity - repeated exposure

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

Hazard category	Target organ	Exposure route
2	nervous system	if exposed

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

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

#### • If swallowed

diarrhoea, abdominal pain, nausea, aspiration hazard

#### • If in eyes

Causes serious eye irritation

#### • If inhaled

cough, Dyspnoea, fatigue, narcosis, Irritation to respiratory tract

#### • If on skin

pruritis, localised redness, causes skin irritation

#### • Other information

none

#### **11.2 Endocrine disrupting properties**

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

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None of the ingredients are listed.

#### 11.3 Information on other hazards

There is no additional information.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
Acetone	67-64-1	LC50	5.540 <sup>mg</sup> / <sub>l</sub>	fish	96 h			
Acetic acid ethyl ester	141-78-6	LC50	230 <sup>mg</sup> / <sub>l</sub>	fish	96 h			
Acetic acid ethyl ester	141-78-6	EC50	220 <sup>mg</sup> / <sub>l</sub>	fish	96 h			
Dichloromethane	75-09-2	LC50	193 <sup>mg</sup> / <sub>l</sub>	fish	96 h			
Tetrahydrofuran	109-99-9	LC50	2.160 <sup>mg</sup> / <sub>l</sub>	Pimephales promelas	96 h			
Tetrahydrofuran	109-99-9	EC50	1.930 <sup>mg</sup> / <sub>l</sub>	Pimephales promelas	96 h			

Aquatic toxicity (chronic) of components of the mixture								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
Acetone	67-64-1	EC50	61,15 <sup>g</sup> / <sub>l</sub>	microorganisms	30 min			
Dichloromethane	75-09-2	LC50	471 <sup>mg</sup> / <sub>l</sub>	fish	8 d			
Dichloromethane	75-09-2	EC50	2.590 <sup>mg</sup> / <sub>l</sub>	microorganisms	40 min			

#### **Biodegradation**

Data are not available.

#### 12.2 Process of degradability

Degradability of components of the mixture									
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source			
Acetone	67-64-1	carbon dioxide generation	90,9 %	28 d		ECHA			
Acetic acid ethyl ester	141-78-6	biotic/abiotic	100 %	28 d					
Acetic acid ethyl ester	141-78-6	oxygen deple- tion	62 %	5 d		ECHA			
Dichlorometh- ane	75-09-2	biotic/abiotic	5 - 26 %	28 d					
Dichlorometh- ane	75-09-2	oxygen deple- tion	68 %	28 d		ECHA			



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Degradability of components of the mixture						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Tetrahydrofur- an	109-99-9	biotic/abiotic	39 %	28 d		
Tetrahydrofur- an	109-99-9	oxygen deple- tion	39 %	28 d		ECHA

#### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture						
Name of substance	CAS No	BCF	Log KOW	BOD5/COD		
Acetone	67-64-1		-0,23	963,5		
Acetic acid ethyl ester	141-78-6	30	0,68 (pH value: 7, 25 °C)			
Hydrocarbons, C <sub>6</sub> , n-alkanes, iso- alkanes, cyclics, 5-60% n-hexane	64742-49-0	501,2	4			
Dichloromethane	75-09-2	39	1,25 (pH value: 7, 20 °C)			
Tetrahydrofuran	109-99-9		0,45 (pH value: 7, 25 °C)			

#### 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** None of the ingredients are listed.

#### 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. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

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#### 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. Waste catalogue ordinance (Germany).

#### 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.

### **SECTION 14: Transport information**

#### 14.1 UN number or ID number ADRRID UN 1993 IMDG-Code UN 1993 ICAO-TI UN 1993 14.2 UN proper shipping name ADRRID FLAMMABLE LIQUID, N.O.S. IMDG-Code FLAMMABLE LIQUID, N.O.S. ICAO-TI Flammable liquid, n.o.s. Acetic acid ethyl ester, Acetone Technical name (hazardous ingredients) 14.3 Transport hazard class(es) 3 ADRRID IMDG-Code 3 ICAO-TI 3 14.4 Packing group ADRRID Π IMDG-Code Π ICAO-TI Π 14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous 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.

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

#### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Particulars in the transport document	UN1993, FLAMMABLE LIQUID, N.O.S., (contains: Acetic acid ethyl ester, Acetone), 3, II, (D/E), spe- cial provision 640D
Classification code	F1

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Danger label(s)	3
Special provisions (SP)	274, 601, 640D
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D/E
Hazard identification No	33
Emergency Action Code	3YE
Regulations concerning the International Ca information	arriage of Dangerous Goods by Rail (RID)Additional
Classification code	F1
Danger label(s)	3
Special provisions (SP)	274, 601, 640D
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	33
International Maritime Dangerous Goods Co	ode (IMDG) - Additional information
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Particulars in the shipper's declaration	UN1993, FLAMMABLE LIQUID, N.O.S., (contains: Acetic acid ethyl ester, Acetone), 3, II, -20°C c.c.
Marine pollutant	-
Danger label(s)	3
•	
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, <u>S-E</u>
Stowage category	В

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International Civil Aviation Organization (ICA	O-IATA/DGR) - Additional information
Proper shipping name	Flammable liquid, n.o.s.
Particulars in the shipper's declaration	UN1993, Flammable liquid, n.o.s., (contains: Acet- ic acid ethyl ester, Acetone), 3, II
Danger label(s)	3
Special provisions (SP)	A3
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)						
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes			
P5c	flammable liquids (cat. 2, 3)	5.000 50.000	51)			

#### Notation

51) Flammable liquids, categories 2 or 3 not covered by P5a and P5b

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

VOC content	100 % 880 <sup>9</sup> / <sub>l</sub>

#### Industrial Emissions Directive (IED)

VOC content	100 %
VOC content (Water content was discounted)	880 <sup>g</sup> /l

## Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

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

Pollutant release and transfer registers (PRTR)					
Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)		
Dichloromethane	75-09-2		1 000		

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#### Water Framework Directive (WFD)

List of pollutants (WFD)						
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks		
Tetrahydrofuran	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)			
Hydrocarbons, C <sub>6</sub> , n-alkanes, iso- alkanes, cyclics, 5-60% n-hexane	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)			
Acetone	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)			
Dichloromethane	dichloromethane	75-09-2	b)			
Dichloromethane	dichloromethane	75-09-2	c)			
Dichloromethane	Organohalogen compounds and substances which may form such compounds in the aquatic envir- onment		a)			
Dichloromethane	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)			

Legend A) B) C)

Indicative list of the main pollutants List of priority substances in the field of water policy Environmental Quality Standards for Priority Substances and certain other pollutants

#### Regulation on the marketing and use of explosives precursors



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Explosives precursors which are subject to restrictions					
Name of substance	CAS No	Type of registration	Remarks	Limit value	Upper limit value for the pur- pose of licensing under Article 5(3)
Acetone	67-64-1	Annex II			

#### Legend

annex II Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported

#### **Additional statements**

If the product is passed on to third parties, in accordance with Article 7 "Notification of the supply chain" of Regulation EU 2019/1148, the information obligation is subject to the entire supply chain and all other provisions mentioned in Article 7 on restricted and regulated raw materials.

#### **Regulation on drug precursors**

Name of substance	CAS No	Classification	CN Code	Threshold level
Acetone	67-64-1	Category 3	2914 11 00	

#### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

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

none of the ingredients are listed

#### **Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed

#### National regulations(GB)

## List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list none of the ingredients are 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
Nitro thinner	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3
Acetone	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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#### UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances

Name of substance	CAS No	Listed in	HS code
Acetone	67-64-1	Table II	2914.11

#### **National inventories**

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

#### Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

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

Alignment to regulation: Restructuring: section 9, section 14

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1	The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.	The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
2.2	Hazardous ingredients for labelling: Xylene (isomers), 1-Butanol, Toluene, Acetone	Hazardous ingredients for labelling: Hydrocarbons, C <sub>6</sub> , n-alkanes, iso-alkanes, cyc- lics, 5-60% n-hexane, Acetone, Acetic acid ethyl ester	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: Xylene (isomers), 1-Butanol, Toluene, Acetone		yes

## Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in imple- mentation of Council Directive 98/24/EC
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in imple- mentation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/ 161/EU
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)

# Safety data sheet Safety data sheet acc. to Regulation (EC) No. 1907/2006 (REACH)

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Abbr.	Descriptions of used abbreviations
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CN Code	Combined Nomenclature
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi fier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
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 Na- tions
HS	Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
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
IOELV	Indicative occupational exposure limit value

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Abbr.	Descriptions of used abbreviations
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
log KOW	n-Octanol/water
NLP	No-Longer Polymer
РВТ	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

#### 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).

#### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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

Code	Text
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.



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Code	Text
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child (if inhaled).
H373	May cause damage to organs (nervous system) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Disclaimer

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