

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 1.01

Revision: 19.02.2020

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

1.1 Product identifier

Trade name: SONAX Zinc Aluminium Spray

Article number: 04793000

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

Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Application of the substance / the mixture Anticorrosion additive

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

Tel.: ++49 (0)8431/53-0

Further information obtainable from:

Product safety

E-mail: erp@sonax.de

Phone: + +49 (0) 8431 53 217

1.4 Emergency telephone number: Emergency Phone Munich Tel.: +49 (0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07 GHS09

Signal word Danger

Hazard-determining components of labelling:

ethyl acetate

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

acetone

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

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P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.
Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Formulation consisting of pressurised gas and solvents with additives

Dangerous components:

CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	25 - <50%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-xxxx	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10 - <20%
CAS: 7440-66-6 EINECS: 231-175-3	zinc powder -zinc dust (stabilized) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	10 - <20%
EC No 921-024-6 Reg.nr.: 01-2119475514-35-xxxx	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Alternative CAS number: 64742-49-0 ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	5 - <10%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	5 - <10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	3 - <5%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	1 - <3%
CAS: 110-54-3 EINECS: 203-777-6 Reg.nr.: 01-2119480412-44-xxxx	n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥ 5 %	0.1 - <1%

Additional information:

For the wording of the listed hazard phrases refer to section 16.
n-Hexane is a part of the hydrocarbon mixture.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:

Take affected persons out of danger area and lay down.
Remove soiled clothing

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After inhalation:

Supply fresh air.

*In the event of irritation of the respiratory tract, dizziness, nausea or unconsciousness, call medical assistance immediately.***After skin contact:***Wash the areas of skin affected with water and a mild detergent.**If symptoms persist consult doctor.***After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.***After swallowing:** *Do not induce vomiting; call for medical help immediately.***4.2 Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

Nausea

Drowsiness

Eye irritation

Skin irritation

4.3 Indication of any immediate medical attention and special treatment needed*Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.***SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

Foam

Carbon dioxide

Fire-extinguishing powder

Water haze

For safety reasons unsuitable extinguishing agents: *Water with full jet***5.2 Special hazards arising from the substance or mixture***Can form explosive gas-air mixtures.**In case of fire, the following can be released:*

Carbon monoxide (CO)

Carbon dioxide (CO₂)**5.3 Advice for firefighters****Protective equipment:***Do not inhale explosion gases or combustion gases.**Wear fully protective suit.**Do not enter the hazardous area without a self-contained breathing apparatus.**See Section 8 for information on personal protection equipment.***Additional information***Cool endangered receptacles with water spray.**Collect contaminated fire fighting water separately. It must not enter the sewage system.***SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures***Keep away from ignition sources.**Ensure adequate ventilation**Wear protective equipment. Keep unprotected persons away.***6.2 Environmental precautions:***Do not allow to penetrate the ground/soil.**Inform respective authorities in case of seepage into water course or sewage system.**Do not allow to enter sewers/ surface or ground water.***6.3 Methods and material for containment and cleaning up:***Ensure adequate ventilation.**Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to item 13.***6.4 Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.*

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Buildup of explosive mixtures possible without sufficient ventilation.
Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

Highly volatile, flammable constituents are released during processing.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Provide solvent resistant, sealed floor.

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Store receptacle in a well ventilated area.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Protect from heat and direct sunlight.

Recommended storage temperature: 20 °C.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 115-10-6 dimethyl ether

WEL (Great Britain) Short-term value: 958 mg/m³, 500 ppm

Long-term value: 766 mg/m³, 400 ppm

IOELV (EU) Long-term value: 1920 mg/m³, 1000 ppm

CAS: 141-78-6 ethyl acetate

WEL (Great Britain) Short-term value: 400 ppm

Long-term value: 200 ppm

CAS: 67-64-1 acetone

WEL (Great Britain) Short-term value: 3620 mg/m³, 1500 ppm

Long-term value: 1210 mg/m³, 500 ppm

IOELV (EU) Long-term value: 1210 mg/m³, 500 ppm

CAS: 100-41-4 ethylbenzene

WEL (Great Britain) Short-term value: 552 mg/m³, 125 ppm

Long-term value: 441 mg/m³, 100 ppm

Sk

IOELV (EU) Short-term value: 884 mg/m³, 200 ppm

Long-term value: 442 mg/m³, 100 ppm

Skin

CAS: 110-54-3 n-hexane

WEL (Great Britain) Long-term value: 72 mg/m³, 20 ppm

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IOELV (EU)	Long-term value: 72 mg/m ³ , 20 ppm
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Regulatory information WEL (Great Britain): EH40/2011

DNELs

CAS: 67-64-1 acetone

Oral	DNEL	62 mg/kg (consumer) (chronic systemic effect)
Dermal	DNEL	186 mg/kg (worker) (chronic systemic effect)
	DNEL	62 mg/kg (worker) (chronic systemic effect)
Inhalative	DNEL	200 mg/m ³ (consumer) (chronic systemic effect)
		1,210 mg/m ³ (worker) (chronic systemic effect)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Oral	DNEL	699 mg/kg bw/day (consumer) (chronic exposition / systemic effects)
Dermal	DNEL	699 mg/kg bw/day (consumer) (chronic exposition / systemic effects)
		773 mg/kg bw/day (worker) (chronic exposition / systemic effects)
Inhalative	DNEL	608 mg/m ³ (consumer) (chronic exposition / systemic effects)
		2,035 mg/m ³ (worker) (chronic exposition / systemic effects)

PNECs

CAS: 67-64-1 acetone

PNEC	100 mg/l (STP)
	21 mg/l (water)
	10.6 mg/l (water (fresh water))
	1.06 mg/l (water (sea water))
PNEC	30.4 mg/kg (sediment (fresh water))
	3.04 mg/kg (sediment (sea water))
	29.5 mg/kg (soil)

Ingredients with biological limit values:

CAS: 1330-20-7 xylene

BMGV (Great Britain)	650 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: methyl hippuric acid

Regulatory information BMGV (Great Britain): EH40/2011
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Suitable technical control devices

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Respiratory protection:

If the occupational exposure limit is exceeded:

The following breathing protection is recommended:

Respiratory filter for organic gases and vapours (Type A)

Identification colour: Brown

[DIN EN 14387]

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.45 mm

[EN 374]

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Trade name: SONAX Zinc Aluminium Spray

Penetration time of glove material Value for the permeation: Level 6 (≥ 480 min)

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Eye protection:

Safety glasses

[EN 166]

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Aerosol
Colour:	Grey
Odour:	Solvent-like
Odour threshold:	Not determined.

pH-value: Not applicable.**Change in condition**

Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: 70 - 115 °C
 (Active ingredient data)

Flash point: -40 °C
 (Active ingredient data)

Flammability (solid, gas): Not applicable.**Decomposition temperature:** Not determined.**Auto-ignition temperature:** Not determined.**Explosive properties:** In use, may form flammable/explosive vapour-air mixture.**Explosion limits:**

Lower: 2.7 Vol %
Upper: 32 Vol %

Vapour pressure: Not determined.

Density at 20 °C: 1.1 g/cm³ (DIN 51757)
 (Active ingredient data)

Relative density Not determined.**Vapour density** Not determined.**Evaporation rate** Not applicable.**Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.**Viscosity:**

Flow time Not determined.
Dynamic: Not determined.
Kinematic: >20.5 mm²/s
 (Active ingredient data)

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reactions known.**10.2 Chemical stability** Stable under normal conditions.**10.3 Possibility of hazardous reactions** Develops readily flammable gases/fumes.**10.4 Conditions to avoid**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

An increase in pressure may lead to bursting.

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Keep ignition sources away - Do not smoke.

See Section 7 for information on safe handling.

10.5 Incompatible materials: strong oxidizing agents

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects There are no toxicological findings on this mixture.

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

LD/LC50 values relevant for classification:
CAS: 115-10-6 dimethyl ether

Inhalative LC50/4d 308 mg/l (rat)

CAS: 141-78-6 ethyl acetate

Oral LD50 4,100 mg/kg (mouse)

5,620 mg/kg (rat)

4,934 mg/kg (rabbit)

Dermal LD50 >20,000 mg/kg (rabbit)

Inhalative LC50 / 6 h >22.5 mg/l (rat)

CAS: 7440-66-6 zinc powder -zinc dust (stabilized)

Oral LD50 >2,000 mg/kg (rat)

Inhalative LC50/4d >5,410 mg/l (rat)

CAS: 67-64-1 acetone

Oral LD50 5,800 mg/kg (rat)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Oral LD50 >5,000 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

Inhalative LC50 / 4h >20 mg/l (rat) (OECD 403)

CAS: 1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat)

Dermal LD50 1,700 mg/kg (rabbit)

Inhalative ATE 1.5 mg/l (aerosol)

LC50/4d 21.7 mg/l (rat) (vapour)

CAS: 100-41-4 ethylbenzene

Oral LD50 3,500 mg/kg (rat)

Dermal LD50 15,400 mg/kg (rabbit)

Inhalative ATE 1.5 mg/l (aerosol)

LC50/4d 17.2 mg/l (rat) (vapour)

CAS: 110-54-3 n-hexane

Oral LD50 3,200 mg/kg (rat)

Dermal LD50 3,350 mg/kg (rabbit)

Inhalative LC50/4d 172 mg/l (rat)

Primary irritant effect:
Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Repeated dose toxicity
CAS: 141-78-6 ethyl acetate

NOAEL 90-92d 900 mg/kg/d (rat)

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Does not fulfill the criteria for classification

Contains n-hexane!

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

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

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

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

12.1 Toxicity

Product is considered to be harmful to aquatic organisms. May have long-term harmful effects in aquatic environments.

Aquatic toxicity:
CAS: 141-78-6 ethyl acetate

LC50 / 96h	230 mg/l (Pimephales promelas) 640 mg/l (Daphnia magna)
EC50 / 48h	5,600 mg/l (Scenedesmus subspicatus)

CAS: 7440-66-6 zinc powder -zinc dust (stabilized)

LC50 / 96h	0.439 mg/l (Cottus bairdii)
EC50 / 48h	2 mg/l (Daphnia magna)

CAS: 67-64-1 acetone

LC50 / 96h	5,540 mg/l (Oncorhynchus mykiss) 8,120 mg/l (Pimephales promelas)
LOEC / 28 d	2,212 mg/l (Daphnia magna)
NOEC / 28d	2,212 mg/l (Daphnia magna)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

LL50 / 96h	11.4 mg/l (Oncorhynchus mykiss) (OECD 203)
EL50 / 48h	3 mg/l (Daphnia magna) (OECD 202)
EL50 / 72h	30 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LOEC	0.32 mg/l (Daphnia magna) (21d)
NOELR 72 h	3 mg/l (Pseudokirchneriella subcapitata)
NOEC / 21 d	0.17 mg/l (Daphnia magna)

CAS: 1330-20-7 xylene

LC50 / 96h	4.2 mg/l (Oncorhynchus mykiss)
EC50 / 48h	1.8-2.9 mg/l (Daphnia magna)
ErC50	>100 mg/l (Selenastrum capricornutum)

CAS: 100-41-4 ethylbenzene

ErC 50 / 96h	3.6 mg/l
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CAS: 110-54-3 n-hexane

LL50 / 96h	12.51 mg/l (Oncorhynchus mykiss)
EL50 / 48h	21.85 mg/l (Daphnia magna)

12.2 Persistence and degradability
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Biodegradation	81 % (28d)
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CAS: 110-54-3 n-hexane

Biodegradation	83 % (10d (ECHA))
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12.3 Bioaccumulative potential

CAS: 115-10-6 dimethyl ether

log POW 0.1 log POW

CAS: 141-78-6 ethyl acetate

log POW ≤0.24 log POW

CAS: 1330-20-7 xylene

log Kow 3.12-3.2 log Kow

CAS: 100-41-4 ethylbenzene

log POW 3.15 log POW

CAS: 110-54-3 n-hexane

log Kow 4 log Kow (pH: 7, 20°C)

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes: The product may not be released into the environment without control.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste classified as hazardous according to Annex III to Directive 2008/98/EC.

Recommendation Waste must be disposed of while observing the local, official regulations.

European waste catalogue

Disposal / product + Disposal / contaminated packaging

15 01 10* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name

ADR

1950 AEROSOLS

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR



Class

2 5F Gases.

Label

2.1

IMDG, IATA



Class

2.1

Label

2.1

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14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards:

Marine pollutant:

Yes

absent due to package size =<5l

14.6 Special precautions for user

see Sections 6-8

Warning: Gases.

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)

1L

Transport category

2

Tunnel restriction code

D

UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The following substance(s) in this product is (are) identified by CAS number either in countries not subject to the REACH regulation or in regulations not yet updated with the new naming convention for hydrocarbon solvents.

European Directives:

EC/1907/2006 (REACH)

EC/1272/2008 (CLP)

EC/648/2004

National regulations:

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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Classification according to Regulation (EC) No 1272/2008

Aerosols	On basis of test data
Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = Lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - dermal – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Version history and indication of changes: Replaces version 1.00.

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