

SAFETY DATA SHEET according to Regulation 1907/2006



Product name: RUSTBUSTER SAFER RUST REMOVER CONCENTRATE
Creation date: 23.1.2017 · Revision: 15.3.2019 · Version: 4

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

RUSTBUSTER SAFER RUST REMOVER CONCENTRATE

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

Relevant identified uses

Cleaner

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Supplier

Rustbuster Ltd
Unit 2 Welland House, Cradge Bank
Spalding
Lincolnshire
PE11 3AN
UK

1.4. Emergency telephone number

Emergency

999

Supplier

01775 761222 out of hours 07860 245312

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Eye Irrit. 2; H319 Causes serious eye irritation.

2.2 Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Warning**

H319 Causes serious eye irritation.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with national regulation.

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2.2.2. Contains:

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2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	REACH Registration No.
Citric acid	77-92-9 201-069-1 -	25-30	Eye Irrit. 2; H319	-
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2 -	5-10	not classified	-
phosphoric acid ^[B]	7664-38-2 231-633-2 015-011-00-6	2,5-5	Skin Corr. 1B; H314	-
xylene, mixture of isomers ^[C]	1330-20-7 215-535-7 601-022-00-9	0,1-1	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373	-
ethylbenzene	100-41-4 202-849-4 601-023-00-4	0,01-0,1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Acute Tox. 4; H332 STOT RE 2; H373	-

Notes for substances:

B Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations.

In Part 3 entries with Note B have a general designation of the following type: "nitric acid ... %".

In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.

In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

When in doubt or if you feel unwell seek medical assistance. Show the Safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation does not stop, seek professional medical treatment!

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Consult a physician. Show the physician the Safety Data Sheet or label.

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

Inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.
Vapours may cause drowsiness and dizziness.

Skin contact

Contact with skin may cause irritation (redness, itching).

Eye contact

Redness, tearing, pain.

Ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.
May cause nausea/vomiting and diarrhea.
May cause abdominal discomfort.

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

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SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3. Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

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Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective clothing for fire-fighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137) .

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Emergency procedures

Ensure adequate ventilation. Prevent access to unprotected personnel. Do not breathe vapour or mist. Avoid contact with skin and eyes. Prevent access to unauthorised personnel.

6.1.2. For emergency responders

Use personal protective equipment.

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

Stem the spill if this does not pose risks.

6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Dispose in accordance with applicable regulations (see section 13).

6.3.3. Other information

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6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

-

7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices-wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in tightly closed container. Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Keep away from bases.

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7.2.2. Packaging materials

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7.2.3. Requirements for storage rooms and vessels

Close opened containers after use. Put the container upright to prevent from leaking. Do not store in unlabelled containers.

7.2.4. Storage class

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7.2.5. Further information on storage conditions

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7.3. Specific end use(s)

Recommendations

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Industrial sector specific solutions

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational Exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m ³ (ppm)	mg/m ³	ml/m ³ (ppm)	mg/m ³		
2,6-Dimethylheptan-4-one (108-83-8)	25	148	-	-		
Ethylbenzene (100-41-4)	100	441	125	552	Sk	
(2-methoxymethylethoxy) propanol (34590-94-8)	50	308	-	-	Sk	
Orthophosphoric acid (7664-38-2)	-	1	-	2		
Xylene, o-,m-,p- or mixed isomers (1330-20-7)	50	220	100	441	Sk, BMGV	650 mmol methyl hippuric acid/mol creatinine in urine - Post shift

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents.

8.1.3. DNEL/DMEL values

For components

Name	Type	Exposure route	exp. frequency	Value	Remark
(2-methoxymethylethoxy)propanol (34590-94-8)	Worker	dermal	long term (systemic effects)	65 mg/kg bw/day	
(2-methoxymethylethoxy)propanol (34590-94-8)	Worker	inhalation	long term (systemic effects)	310 mg/m ³	
(2-methoxymethylethoxy)propanol (34590-94-8)	Consumer	inhalation	long term (systemic effects)	3,2 mg/m ³	
phosphoric acid (7664-38-2)	Worker	inhalation	long term (local effects)	1 mg/m ³	
phosphoric acid (7664-38-2)	Worker	inhalation	short term (local effects)	2 mg/m ³	
phosphoric acid (7664-38-2)	Consumer	inhalation	long term (local effects)	0,36 mg/m ³	

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phosphoric acid (7664-38-2)	Worker	inhalation	long term (systemic effects)	10,7 mg/m ³	
phosphoric acid (7664-38-2)	Consumer	inhalation	long term (systemic effects)	4,57 mg/m ³	
phosphoric acid (7664-38-2)	Consumer	oral	long term (systemic effects)	0,1 mg/kg bw/day	
xylene, mixture of isomers (1330-20-7)	Consumer	oral	long term (systemic effects)	1,6 mg/kg	
xylene, mixture of isomers (1330-20-7)	Consumer	inhalation	long term (systemic effects)	14,8 mg/m ³	
xylene, mixture of isomers (1330-20-7)	Consumer	dermal	long term (systemic effects)	108 mg/kg	
xylene, mixture of isomers (1330-20-7)	Worker	inhalation	short term (local effects)	289 mg/m ³	
xylene, mixture of isomers (1330-20-7)	Worker	inhalation	short term (systemic effects)	77 mg/m ³	
xylene, mixture of isomers (1330-20-7)	Worker	inhalation	long term (local effects)	221 mg/m ³	
xylene, mixture of isomers (1330-20-7)	Worker	inhalation	long term (systemic effects)	77 mg/m ³	
xylene, mixture of isomers (1330-20-7)	Worker	dermal	long term (systemic effects)	180 mg/kg/day	
ethylbenzene (100-41-4)	Worker	inhalation	long term (systemic effects)	77 mg/m ³	
ethylbenzene (100-41-4)	Worker	inhalation	short term (local effects)	293 mg/m ³	
ethylbenzene (100-41-4)	Consumer	dermal	long term (systemic effects)	180 mg/kg bw/day	
ethylbenzene (100-41-4)	Consumer	inhalation	long term (systemic effects)	15 mg/m ³	
ethylbenzene (100-41-4)	Consumer	oral	long term (systemic effects)	1,6 mg/kg bw/day	
2,6-dimethylheptan-4-one (108-83-8)	Worker	inhalation	long term (systemic effects)	479 mg/m ³	
2,6-dimethylheptan-4-one (108-83-8)	Worker	inhalation	short term (systemic effects)	290 mg/m ³	
2,6-dimethylheptan-4-one (108-83-8)	Worker	dermal	long term (systemic effects)	80 mg/kg bw/day	
2,6-dimethylheptan-4-one (108-83-8)	Consumer	inhalation	long term (systemic effects)	171 mg/m ³	
2,6-dimethylheptan-4-one (108-83-8)	Consumer	inhalation	short term (systemic effects)	145 mg/m ³	
2,6-dimethylheptan-4-one (108-83-8)	Consumer	dermal	long term (systemic effects)	28,5 mg/kg bw/day	
2,6-dimethylheptan-4-one (108-83-8)	Consumer	oral	long term (systemic effects)	7,14 mg/kg bw/day	

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8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
Citric acid (77-92-9)	fresh water	0,44 mg/L	
Citric acid (77-92-9)	marine water	0,044 mg/L	
Citric acid (77-92-9)	water treatment plant	1000 mg/L	
Citric acid (77-92-9)	fresh water sediment	34,6 mg/kg	
Citric acid (77-92-9)	marine water sediment	3,46 mg/kg	
Citric acid (77-92-9)	soil	33,1 mg/kg	
(2-methoxymethylethoxy)propanol (34590-94-8)	soil	2,74 mg/kg	
(2-methoxymethylethoxy)propanol (34590-94-8)	fresh water	19 mg/L	
(2-methoxymethylethoxy)propanol (34590-94-8)	marine water	1,9 mg/L	
(2-methoxymethylethoxy)propanol (34590-94-8)	fresh water sediment	70,2 mg/kg	
(2-methoxymethylethoxy)propanol (34590-94-8)	marine water sediment	7,02 mg/kg	
xylene, mixture of isomers (1330-20-7)	fresh water	0,327 mg/L	
xylene, mixture of isomers (1330-20-7)	marine water	0,327 mg/L	
xylene, mixture of isomers (1330-20-7)	fresh water sediment	12,46 mg/kg	
xylene, mixture of isomers (1330-20-7)	marine water sediment	12,46 mg/kg	
xylene, mixture of isomers (1330-20-7)	soil	2,31 mg/kg	
ethylbenzene (100-41-4)	fresh water	0,1 mg/L	
ethylbenzene (100-41-4)	water, intermittent release	0,1 mg/L	fresh water
ethylbenzene (100-41-4)	marine water	0,01 mg/L	
ethylbenzene (100-41-4)	water treatment plant	9,6 mg/L	
ethylbenzene (100-41-4)	fresh water sediment	13,7 mg/kg	dry weight
ethylbenzene (100-41-4)	marine water sediment	1,37 mg/kg	dry weight
ethylbenzene (100-41-4)	soil	2,68 mg/kg	dry weight
ethylbenzene (100-41-4)	food chain	20 mg/kg feed	oral
2,6-dimethylheptan-4-one (108-83-8)	fresh water	0,03 mg/L	
2,6-dimethylheptan-4-one (108-83-8)	marine water	0,003 mg/L	
2,6-dimethylheptan-4-one (108-83-8)	water, intermittent release	0,3 mg/L	
2,6-dimethylheptan-4-one (108-83-8)	fresh water sediment	0,46 mg/kg dwt	
2,6-dimethylheptan-4-one (108-83-8)	marine water sediment	0,046 mg/kg dwt	
2,6-dimethylheptan-4-one (108-83-8)	water treatment plant	2,55 mg/L	
2,6-dimethylheptan-4-one (108-83-8)	soil	0,075 mg/kg dw	agricultural land

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Handle in accordance with good industrial hygiene and safety practice. Use good personal hygiene practices-wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

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8.2.2. Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374).

Skin protection

Cotton protective clothing (EN ISO 13688) and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

-

8.2.3. Environmental exposure controls

-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

-	Physical state:	liquid; gel
-	Colour:	yellow
-	Odour:	gentle

Important health, safety and environmental information

-	pH	> 2
-	Melting point/Freezing point	< 2 °C
-	Initial boiling point/boiling range	No information.
-	Flash point	No information.
-	Evaporation rate	No information.
-	Flammability (solid, gas)	No information.
-	Explosion limits (vol%)	No information.
-	Vapour pressure	No information.
-	Vapour density	No information.
-	Density	Density: 1,15 g/cm ³ at 20 °C
-	Solubility	Water: Completely soluble
-	Partition coefficient	No information.
-	Auto-ignition temperature	No information.
-	Decomposition temperature	No information.
-	Viscosity	dynamic: ca. 6000 mPas
-	Explosive properties	No information.
-	Oxidising properties	No information.

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9.2. Other information

-	Weight organic solvents	71 – 74 g/l
-	Solid contents	36 – 40 %
-	Remarks:	

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Product is stable under normal conditions according of handling and storage.

10.3. Possibility of hazardous reactions

No data.

10.4. Conditions to avoid

No special precautions required. Consider the directions for use and storage.

10.5. Incompatible materials

Bases.

10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
Citric acid (77-92-9)	oral	LD ₅₀	mouse		5400 mg/kg	OECD 401	
Citric acid (77-92-9)	oral	LD ₅₀	mouse		11700 mg/kg	OECD 401	
Citric acid (77-92-9)	oral	LD ₅₀	mouse		5000 mg/kg		
Citric acid (77-92-9)	oral	LD ₅₀			3000 mg/kg		
Citric acid (77-92-9)	dermal	LD ₅₀	rat		> 2000 mg/kg		
Citric acid (77-92-9)	-	LD ₅₀	rat		725 mg/kg		
Citric acid (77-92-9)	-	LD ₅₀	mouse		940 mg/kg		
(2-methoxymethylethoxy)propanol (34590-94-8)	oral	LD ₅₀	rat		> 5000 mg/kg		
(2-methoxymethylethoxy)propanol (34590-94-8)	dermal	LD ₅₀	rabbit		> 19020 mg/kg		
(2-methoxymethylethoxy)propanol (34590-94-8)	inhalation	LC ₅₀	rat		> 275 ppm		
phosphoric acid (7664-38-2)	oral	LD ₅₀	rat		3500 mg/kg		
phosphoric acid (7664-38-2)	dermal	LD ₅₀	rabbit		2470 mg/kg		

(b) Skin corrosion/irritation

No information.

(c) Serious eye damage/irritation

Additional information: Causes serious eye irritation.

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(d) Respiratory or skin sensitisation

No information.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

No information.

(i) STOT-repeated exposure

No information.

(j) Aspiration hazard

No information.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
Citric acid (77-92-9)	LC ₅₀	440 – 760 mg/L	96 h	fish	<i>Leuciscus idus</i>	OECD 203	
	EC ₅₀	1535 mg/L	24 h	crustacea	<i>Daphnia magna</i>		
	EC ₅₀	120 mg/L	72 h	crustacea	<i>Daphnia magna</i>		
	EC ₀	425 mg/L	168 h	algae	<i>Scenedesmus quadricauda</i>	static test	
	EC ₀	> 10000 mg/L	16 h	bacteria	<i>Pseudomonas putida</i>		
(2-methoxymethylethoxy)propanol (34590-94-8)	LC50	> 10000 mg/L	96 h	fish			
phosphoric acid (7664-38-2)	LC50	138 mg/L	96 h	fish	<i>Gambusia affinis</i>		

12.1.2. Chronic (long-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
(2-methoxymethylethoxy)propanol (34590-94-8)	NOEC	> 0,5 mg/l	21 days	crustacea	<i>Daphnia magna</i>		
phosphoric acid (7664-38-2)	LC ₅₀	6,2 mg/l	192 h	fish			

12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

No information.

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12.3. Bioaccumulative potential

12.3.1. Partition coefficient

No information.

12.3.2. Bioconcentration factor (BCF)

No information.

12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

No information.

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorized collector/remover/transformer of hazardous waste.

Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

13.1.2. Waste treatment-relevant information

-

13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

-

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

not applicable

14.2. UN proper shipping name

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

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14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

NO

14.6. Special precautions for user

not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Indication of changes

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Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances

SAFETY DATA SHEET according to Regulation 1907/2006

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Creation date: 23.1.2017 · Revision: 15.3.2019 · Version: 4

ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

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List of relevant H phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure .

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.