

SAFETY DATA SHEET



Tiger Tim

Revision: 4.2 Date: 23.06.2021

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP)
& 2015/830

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JACK'S FIRELIGHTERS (Kerosene)

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

1.1 Product identifier

Product Name	Firelighters (Kerosene)
CAS No.	Mixture.
EINECS No.	Mixture.
REACH Registration No.	None assigned.
UFI	N300-D0C3-H006-24RF

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

Identified Use(s)	Consumer use: Product used for the ignition of solid fuels in domestic appliances..
Uses Advised Against	Anything other than the above.

1.3 Details of the supplier of the safety data sheet

Manufacturer	Tiger Tim Products Ltd Rhosesmor, Mold Flintshire, CH7 6PZ United Kingdom
Telephone	+0044 (0) 1352 78 0861
Fax	+0044 (0) 1352 78 1294
E-Mail (competent person)	sales@tigertimproducts.co.uk

Supplier	Booker, Equity House, Irthlingborough Road, Wellingborough, Northants, NN8 1LT, UK. 01933 371000
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	Makro, 97 Kingsway, Dunmurry, Belfast, BT17 9NS, NI. 01933 371000
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1.4 Emergency telephone number

Emergency Phone No.	+0044 (0) 1352780861 +0044 (0) 7984473602 +0044 (0) 7931831452 24 hours, English spoken
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Out of Office Hours Emergency Information:- For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice please call:- 0870 190 6777. NOTE: This number will not provide technical details of the product, or deal with other general enquiries regarding application and use of the product.

SAFETY DATA SHEET



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Revision: 4.2 Date: 23.06.2021

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& 2015/830

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP) Flam. Sol. 2; H228

2.2 Label elements According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Firelighters (Kerosene)

Hazard Pictogram(s)



Signal Word(s) WARNING

Hazard Statement(s) H228: Flammable solid.

Precautionary Statement(s)
P102: Keep out of reach of children.
P101: If medical advice is needed, have product container or label at hand.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3 Other hazards None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures - Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Kerosene (petroleum)	≤ 80	8008-20-6	232-366-4	01-2119485517-27	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411
Methanol*	< 0.5%	67-56-1	200-659-6	01-2119433307-44	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 STOT SE 1; H370
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	≤ 0.3	68411-30-3	270-115-0	01-2119489428-22	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412

SAFETY DATA SHEET



Tiger Tim

Revision: 4.2 Date: 23.06.2021

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP)
& 2015/830

www.tigertimproducts.co.uk

Formaldehyde	< 0.1	50-00-0	200-001-8	01-2119488953-20	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Acute Tox. 3; H331 Muta. 2; H341 Carc. 1B; H350
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For full text of H phrases see section 16. *Substance with a community exposure limit

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Ensure adequate ventilation. Avoid breathing dust. Wear suitable protective clothing and gloves. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse. If medical advice is needed, have product container or label at hand.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Gently wash with plenty of soap and water. Remove contaminated clothing and wash clothing before reuse.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.

Ingestion

Rinse mouth. Give plenty of water to drink. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Dust can cause mechanical irritation of the eyes, skin nose and throat

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media

Extinguish preferably with dry chemical, sand, foam or carbon dioxide.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

Flammable solid. This product may give rise to hazardous fumes in a fire.: Carbon monoxide, Carbon dioxide

5.3 Advice for fire-fighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure operatives are trained to minimise exposures. Wear suitable protective clothing and gloves. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with skin and eyes.

6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel into waste drums or plastic bags. Transfer to a lidded container for disposal or recovery. Keep away from heat and sources of ignition. Ventilate the area and wash spill site after material pick-up is complete. Avoid

SAFETY DATA SHEET



Tiger Tim

Revision: 4.2 Date: 23.06.2021

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6.4 Reference to other sections contact with skin and eyes.
See Section: 8,13

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Keep away from heat and sources of ignition. Unlikely to cause harmful effects under normal conditions of handling and use. When using do not eat or drink. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Wear suitable gloves if prolonged skin contact is likely. Wash hands thoroughly after handling.
- 7.2 Conditions for safe storage, including any incompatibilities**
Storage temperature Ambient. Keep away from heat and direct sunlight.
Storage life Stable under normal conditions.
Incompatible materials Strong oxidising agents
- 7.3 Specific end use(s)** Product used for the ignition of solid fuels in domestic appliances.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1.1 Occupational Exposure Limits** Due to the constituents being bonded by the polymerisation process exposure to the below substance(s) is unlikely.

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Methanol	67-56-1	200	266	250	333	WEL, Sk
		200	260	-	-	IOELV
Formaldehyde	50-00-0	2	2.5	2	2.5	WEL
Hydrogen chloride (Gas, aerosol or mist formation) [#]	7647-01-0	5	8	10	15	IOELV
		1	2	5	8	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40), IOELV: Indicative Occupational Exposure Limit Value

Note: Sk - Can be absorbed through skin.

#: Component included below the relevant concentration levels detailed within section 3.2.1 of SDS regulation 2015/830.

- 8.1.2 Biological limit value** Not applicable
- 8.1.3 PNECs and DNELs** Not available
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls** Keep away from heat and sources of ignition. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Wear flame-resistant antistatic protective clothing.
- 8.2.2 Personal protection equipment** Wear flame-resistant antistatic protective clothing. Keep good industrial hygiene. Wash hands before breaks and after work. Keep work clothes separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place.

Eye/ face protection



No special requirements.

Skin protection (Hand protection/ Other)

Avoid prolonged skin contact. Wear suitable gloves if prolonged skin contact is

SAFETY DATA SHEET



Tiger Tim

Revision: 4.2 Date: 23.06.2021

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

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Respiratory protection



Thermal hazards

likely. Wear impervious gloves (EN374). Nitrile rubber, breakthrough time >240 minutes.

Respiratory protection is not necessary if room is well ventilated. In case of inadequate ventilation wear respiratory protection. Recommended: EN149

None anticipated.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid.
Colour.	White.
Odour	Petroleum spirit Odourless
Odour Threshold (ppm)	Not established.
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	-47°C (Kerosene)
Initial boiling point and boiling range	Not available. (Kerosene)
Flash Point (°C)	38 - 55°C (Kerosene)
Evaporation rate	Not available.
Flammability (solid, gas)	Flammable solid: Burn rate <= 45s (Mixture).
Explosive Limit Ranges	Not applicable.
Vapour Pressure (mm Hg)	Not available.
Vapour Density (Air=1)	Not available.
Relative density	0.7g/cm ³ @ 20°C (Mixture)
Solubility(ies)	Insoluble in water.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Viscosity (mPa. s)	Solid (Mixture)
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Stable under normal conditions.
10.4	Conditions to avoid	Keep away from heat and direct sunlight. Avoid contact with heat and ignition sources. Avoid friction, sparks, or other means of ignition.
10.5	Incompatible materials	Strong oxidising agents.
10.6	Hazardous decomposition product(s)	Decomposition products: Carbon monoxide, Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects (Substances in preparations / mixtures)	On the basis of low exposure and extensive health and safety records, TigerTim are confident that no hazards are applicable to this product.
	Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met.
	Methanol	Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Acute Tox. 3; H301

SAFETY DATA SHEET



Tiger Tim

Revision: 4.2 Date: 23.06.2021

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP)
& 2015/830

www.tigertimproducts.co.uk

	No data
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Acute Tox. 4; H302 LD50 (oral,rat) mg/kg: 1080 (OECD 401)
Formaldehyde	Acute Tox. 3; H301 LD50 (oral,rat) mg/kg: 460 (OECD 401)
Acute toxicity - Inhalation	Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Methanol	Acute Tox. 3; H331 LC50 (Inhalation)(Cat) mg/l/6hour: 43.68 (von Burg, 1994)
Formaldehyde	Acute Tox. 3; H331 LC50 (Inhalation)(rat)(ppm/4h): <463 (Unnamed, 2015)
Acute toxicity - Skin Contact	Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l
Methanol	Acute Tox. 3; H311 LD50 (skin,rabbit) mg/kg: 17100 (Unnamed, 1981)
Formaldehyde	Acute Tox. 3; H311 No data
Skin corrosion/irritation	Based upon the available data, the classification criteria are not met.
Kerosene (petroleum)	Skin Irrit. 2; H315 Irritating to skin. (rabbit) (Unnamed, 1986)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Skin Irrit. 2; H315 Irritating to skin. (rabbit) (OECD 404)
Serious eye damage/irritation	Based upon the available data, the classification criteria are not met.
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Eye Dam. 1; H318 Corrosive to eyes. (rabbit) (OECD 405)
Respiratory or skin sensitization	Based upon the available data, the classification criteria are not met.
Formaldehyde	Skin Sens. 1; H317 Sensitisation (mouse): Positive (OECD 429)
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Formaldehyde	Muta. 2; H341 In vitro: No data In vivo: No data
Carcinogenicity	Based upon the available data, the classification criteria are not met.
Formaldehyde	Carc. 1B; H350 No data
Reproductive toxicity	Based upon the available data, the classification criteria are not met.
STOT - single exposure	Based upon the available data, the classification criteria are not met. STOT SE 1; H370
Methanol	Lethal dose (Rhesus Monkey)(mg/l)(18hours): 13. Target organ(s): Optic nerve (McCord, 1931)
Kerosene (petroleum)	STOT SE 3; H336 LC50 (inhalation,rat) mg/l/4h: >5.28 (OECD 403)
STOT - repeated exposure	Based upon the available data, the classification criteria are not met.
Aspiration hazard	Based upon the available data, the classification criteria are not met.
Kerosene (petroleum)	Asp. Tox. 1; H304 Not applicable – Kinematic viscosity: Solid (Mixture)
11.2 Other information	None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Due to the constituents being bonded by the polymerisation process, the ecotoxic effects of the individual components are not applicable to the final product. All test data taken from existing ECHA registrations for the substances mentioned.
Kerosene (petroleum)	Aquatic Chronic 2; H411 NOEL (28days): 0.098 mg/L (Redman, 2010)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Aquatic Chronic 3; H412 NOEC(Oncorhynchus mykiss): 0.23 mg/L (OECD 210)

SAFETY DATA SHEET



Tiger Tim

Revision: 4.2 Date: 23.06.2021

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP)
& 2015/830

www.tigertimproducts.co.uk

12.2 Persistence and degradability	No data for the mixture as a whole.
Kerosene (petroleum)	Readily biodegradable. 70% @ 28 days (OECD 301F)
Methanol	Readily biodegradable. Water - 82.7% @ 5 days (Wagner, R., 1976)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	Readily biodegradable. Degradation rate (%): 85 @ 29 days OECD 301 B
Formaldehyde	Readily biodegradable. Degradation rate (%): 100 @ 4 days (Eiroa M. 2006)
12.3 Bioaccumulative potential	No data for the mixture as a whole.
Kerosene (petroleum)	No data
Methanol	The substance has no potential for bioaccumulation. BCF: 4.5 (Gluth, G. et al., 1985)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	The substance has low potential for bioaccumulation. BCF: 2 - 1000 L/kg OECD 305 E
Formaldehyde	The substance has low potential for bioaccumulation. BCF: < 1 (OECD SIDS, 2004)
12.4 Mobility in soil	No data for the mixture as a whole.
Kerosene (petroleum)	No data
Methanol	The substance is predicted to have high mobility in soil. Koc: 0.13-0.61 (Lokke, H., 1984)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	The substance is predicted to have high mobility in soil. Log Kp 3.4
Formaldehyde	The substance has moderate mobility in soil. Koc: 15.9 (BASF SE 2008)
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6 Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of this material and its container as hazardous waste. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation.
13.2 Additional Information	None.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	UN 2623	UN 2623	UN 2623
14.2 Proper Shipping Name	FIRELIGHTERS, SOLID with flammable liquid	FIRELIGHTERS, SOLID with flammable liquid	FIRELIGHTERS, SOLID with flammable liquid
14.3 Transport hazard class(es)	4.1	4.1	4.1
14.4 Packing group	III	III	III
14.5 Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.		
14.8 Additional Information	ADR Transport Category: 4(E)		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1 EU regulations	
Authorisations and/or Restrictions On Use	None.
15.1.2 National regulations	
Wassergefährdungsklasse (Germany)	Water hazard class: 2 (Self classification).

SAFETY DATA SHEET



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ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

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15.2 Chemical Safety Assessment

Kerosene (petroleum)

A REACH chemical safety assessment has been carried out. for Kerosene (CAS No. 8008-20-6)

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: V4.0

Changes to the previous version:

- Updated Section 11 & 12

References:

Safety Data Sheets for ingoing ingredients. Existing Safety Data Sheet (SDS)

Existing ECHA registration(s) for Kerosene (petroleum) (CAS No. 8008-20-6), Methanol (CAS No. 67-56-1), Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (CAS No. 68411-30-3), Formaldehyde (CAS No. 50-00-0).

Harmonised Classification(s) for Kerosene (petroleum) (CAS No. 8008-20-6) Methanol (CAS No. 67-56-1), Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (CAS No. 68411-30-3), Formaldehyde (CAS No. 50-00-0).

Literature References:

1. BASF SE, 2008, Data assessment, 15 Jan 2008
2. Eiroa M. et al, 2006, Formaldehyde biodegradation in the presence of methanol under denitrifying conditions, J. Chem. Technol. Biotechnol. 81, 312-317
3. Gluth, G. et al., 1985, Accumulation of pollutants in fish, Comparative Biochemistry and Physiology 81C(2): 273-277
4. Lokke, H., 1984, Leaching of ethylene glycol and ethanol in subsoils, Water, Air, and Soil Pollution 22: 373-387
5. OECD SIDS, SIAM 14, March 2002, Final UNEP publication April 2004 (SIDS Formaldehyd CAS 50-00-0)
6. von Burg, R. 1994. Methanol. J Appl Toxicol 14(4): 309-313.
7. McCord, C.P. 1931. Toxicity of methyl alcohol (methanol) following skin absorption and inhalation. Industrial and Engineering Chemistry 23: 931-936.
8. Redman, A. et al. 2010. Aquatic toxicity predictions obtained using the PETROTOX Model for petroleum substances. CONCAWE, Brussels, Belgium.
9. Wagner, R., 1976, Untersuchungen über das Abbauverhalten organischer Stoffe mit Hilfe der respirometrischen Verdünnungsmethode. II. Die Abbaukinetik der Testsubstanzen, Vom Wasser 47: 241-265

This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Flam. Liq. 2; H228	Test Result (Preliminary Screening Test and Burn Rate Test; according to UN Manual of Tests and Criteria, Section 33)
Not classified for Asp. Tox. 1; H304	Kinematic Viscosity Test Result – Solid
Not classified for Skin Irrit. 2; H315	Product is a solid polymer in a sealed metallic or plastic film and will not come in contact with skin.
Not classified for STOT SE 3; H336	On the basis of low exposure and extensive health and safety records, TigerTim are confident that no hazards are applicable to this product.
Not classified for Aquatic Chronic 2; H411	Product is a solid. Insoluble in water.
Not classified for other human health hazards	On the basis of low exposure and extensive health and safety records, TigerTim are confident that no hazards are applicable to this product.

LEGEND

LTEL Long Term Exposure Limit
STEL Short Term Exposure Limit
DNEL Derived No Effect Level
PNEC Predicted No Effect Concentration
BCF Bioconcentration factor (BCF)

PBT Persistent, Bioaccumulative and Toxic
vPvB very Persistent and very Bioaccumulative
NOEC no observed effect concentration
OECD Organisation for Economic Cooperation and Development

Hazard classification / Classification code:

Flam. Liq. 2; Flammable Liquid, Category 2
Flam. Liq. 3; Flammable Liquid, Category 3
Acute Tox. 3; Acute toxicity, Category 3

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H301: Toxic if swallowed.

SAFETY DATA SHEET



Tiger Tim

Revision: 4.2 Date: 23.06.2021

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP)
& 2015/830

www.tigertimproducts.co.uk

Acute Tox. 4; Acute toxicity, Category 4
Asp. Tox. 1; Aspiration hazard, Category 1
Acute Tox. 3; Acute toxicity, Category 3
Skin Corr. 1A/1B/1C ; Skin corrosion/irritation, Category 1A/1B/1C
Skin Irrit. 2; Skin corrosion/irritation, Category 2
Skin Sens. 1; Skin Sensitisation, Category 1
Eye Dam. 1; Eye damage, category 1
Acute Tox. 3; Acute toxicity, Category 3
STOT SE 3; Specific target organ toxicity — single exposure,
Category 3
Muta. 2; Germ cell mutagenicity, Category 2
Carc. 1B; Carcinogenicity, Category 1B
STOT SE 1; Specific target organ toxicity — single exposure,
Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment, Chronic,
Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment, Chronic,
Category 3

H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H331: Toxic if inhaled.
H336: May cause drowsiness or dizziness.

H341: Suspected of causing genetic defects.
H350: May cause cancer.
H370: Causes damage to organs.

H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

Exposure scenarios for substances in this preparation are not available.