

### M-Line Rosin Solvent

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ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS SI 2019/758

Date of issue: 11/04/2025 Version: 5.0

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

1.1 Product identifier

Product name M-Line Rosin Solvent

CAS No. Mixture

1.2 Relevant identified uses of the substance or mixture

and uses advised against

Identified Use(s) Welding and soldering products (with flux coatings or flux cores), flux products.

Uses advised against Anything other than the above.

1.3 Details of the supplier of the safety data sheet

Company Identification VISHAY MEASUREMENTS GROUP UK LTD

Stroudley Road Basingstoke Hampshire RG24 8FW United Kingdom

 Telephone
 +44 (0) 1256 462131

 Fax
 +44 (0) 1256 471441

 E-mail (competent person)
 mm.uk@vpgsensors.com

1.4 Emergency telephone number

National Poisons Information Service (United Kingdom) +44 (0) 3448 920111 24 hr. emergency phone number

Healthcare Professionals ONLY

 NHS 24
 111
 Members of Public

 Emergency Phone No.
 (00-1) 703-527-3887
 CHEMTREC (24 hours)

Languages spoken All official European languages.

### **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

2.1.1 The retained CLP Regulation (EU) No 1272/2008, as

amended for Great Britain

Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 STOT RE 2; H373 Repr. 2; H361d Aquatic Chronic 3; H412

2.2 Label elements According to the retained CLP Regulation (EU) No 1272/2008, as amended for

Great Britain

Product name M-Line Rosin Solvent
Contains: Toluene and 2-Propanol

Hazard Pictogram(s)







Signal Word(s) DANGER

Hazard Statement(s) H225: Highly flammable liquid and vapour.

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H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.

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

H361d: Suspected of damaging the unborn child. H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking. P233: Keep container tightly closed.

P235: Keep cool.

P370+P378: In case of fire: Use dry powder to extinguish.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

P331: Do NOT induce vomiting.

Supplemental information None Known

2.3 Other hazards Not classified as PBT or vPvB. Does not cause endocrine disruption.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.2 Mixtures

Classification: The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

Chemical identity of the	%W/W	CAS No.	EC No.	UK-REACH	Hazard classification
substance				Registration No.	
		45 - 55 108-88-3	203-625-9	Not yet assigned in the supply chain	Flam. Liq. 2; H225
	45 - 55				Asp. Tox. 1; H304
Toluene					Skin Irrit. 2; H315
					STOT SE 3; H336
					Repr. 2; H361d
					STOT RE 2; H373
					Aquatic Chronic 3; H412
				Not yet assigned	Flam. Liq. 2; H225
2-Propanol	45 - 55	67-63-0	200-661-7	in the supply	Eye Irrit. 2; H319
				chain	STOT SE 3; H336

For full text of H phrases see section 16.

## **SECTION 4: FIRST AID MEASURES**



## 4.1 Description of first aid measures

Self-protection of the first aider

Inhalation

Skin contact

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Avoid all contact. Avoid breathing vapours. Ensure adequate ventilation. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Do not use mouth-to-mouth resuscitation. Contaminated clothing should be laundered before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. IF exposed or concerned: Get medical advice/attention.

IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin

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Eye contact

Ingestion

5.2

6.2

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> irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye

irritation develops or persists.

IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Immediately call a POISON CENTER/doctor. Rinse mouth. Drink two glasses of water. Do not give milk or alcoholic beverages. Do not give

anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute May be fatal if swallowed and enters airways. Causes skin irritation. Causes and delayed serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or

repeated exposure: Central nervous system.

4.3 Indication of any immediate medical attention and Treat symptomatically

special treatment needed

IF SWALLOWED: Do NOT induce vomiting, if vomiting does occur, have victim lean forward to reduce risk of aspiration. Latency of several hours is possible. Give a slurry of activated charcoal in water to drink. (240mL Water / 30 g

Activated charcoal).

#### SECTION 5: FIREFIGHTING MEASURES

5.1 **Extinguishing media** Suitable extinguishing media As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical,

foam or waterspray.

Unsuitable extinguishing media Do not use water jet. Direct water jet may spread the fire.

Special hazards arising from the substance or Highly flammable liquid and vapour. May decompose in a fire giving off toxic mixture fumes. Carbon dioxide and Carbon monoxide. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Sealed

containers may rupture explosively if hot.

5.3 Advice for firefighters Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying

with water if exposed to fire. Avoid run off to waterways and sewers.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Do not breathe vapour. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. Keep away from heat, hot surfaces,

sparks, open flames and other ignition sources. No smoking.

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. In confined spaces, sewers, etc., the vapours may collect to form

explosive mixtures with air. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate

regulatory body.

6.3 Methods and material for containment and cleaning

up

**Environmental precautions** 

Ensure suitable personal protection (including respiratory protection) during removal of spillages. Contain spillages. Use non-sparking equipment when picking up flammable spill. Use waterspray to 'knock down' vapour. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do NOT absorb in saw-dust or other combustible absorbents. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete. Dispose

of this material and its container as hazardous waste.

6.4 Reference to other sections

See Section: 8, 13

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### **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not

breathe vapour. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static

discharge.

7.2 Conditions for safe storage, including any incompatibilities

Ground/bond container and receiving equipment. Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep away from

Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep away from direct sunlight.

Storage temperature Ambient. Keep at temperature not exceeding ( $\mathbb{C}$ ): 25

Storage life Stable under normal conditions

Incompatible materials Strong oxidising agents, Acids (Nitric acid and Sulphuric acid), Halogens and

halogenated compounds.

7.3 Specific end use(s) See Section: 1.2.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters

8.1.1 Occupational exposure limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Toluene	108-88-3	50	191	100	384	Sk
2-Propanol	67-63-0	400	999	500	1250	-

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

Notations:

Sk: Can be absorbed through skin.

8.1.2 Biological limit value Not established

8.1.3 PNECs and DNELs Not established

8.2 Exposure controls

**8.2.1** Appropriate engineering controls Ensure adequate ventilation Or Use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit.

leveis should be controlled in compilance with the occupational exposure limit

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Keep good industrial hygiene. Avoid all contact. Avoid breathing vapours. Wash hands before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place. IF exposed: Flush with fresh water if contact with skin or eyes.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Skin protection

### Hand protection:

Wear impervious gloves (EN374). At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374) Gloves should be changed

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regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Recommended: Nitrile rubber (Minimum thickness 0.38mm, breakthrough time

>240 min), PVC (Minimum thickness 1.3mm, breakthrough time >60 min)

**Body protection:** 

Wear impervious protective clothing, including boots, lab coat, apron or

coveralls, as appropriate, to prevent skin contact.

Respiratory protection In case of inadequate ventilation wear respiratory protection. Open system(s):

Wear suitable respiratory protective equipment. A suitable mask with filter type A

(EN141 or EN405) may be appropriate.

Not applicable Thermal hazards

8.2.3 **Environmental exposure controls** Avoid release to the environment. Do not allow to enter drains, sewers or

watercourses.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

> Appearance Clear Colourless Liquid Odour Benzene-like Odour Odour threshold Not available Not available рΗ

Melting point/freezing point Not available

Initial boiling point and boiling range 82°C

Flash point 4℃ [Closed cup] Evaporation rate Not available Flammability (solid, gas) Not applicable - Liquid

Upper/lower flammability or explosive limits Flammable Limits (Lower) (%v/v): 1.2

Flammable Limits (Upper) (%v/v): 7.1

Vapour pressure 36 mmHg @ 30℃ Vapour density 3 (Air = 1)

Relative density  $0.8 (H_2O = 1)$ Solubility(ies) Not available

Not applicable - Mixture Partition coefficient: n-octanol/water

Auto-ignition temperature Not available Decomposition temperature Not available

Viscosity < 20,5 mm<sup>2</sup>/s (Worst case assumption) (Kinematic viscosity)

Explosive properties Vapours can form explosive mixtures with air.

Oxidising properties Not oxidising.

9.2 Other information

> Volatile Organic Compound Content 825 g/L Evaporation rate 2.8 (BuAC = 1)

## **SECTION 10: STABILITY AND REACTIVITY**

10.1 Stable under normal conditions. Reactivity 10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions Highly flammable liquid and vapour. Vapour is explosive in air at temperatures

higher than the flash point. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Hazardous

polymerisation will not occur.

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Conditions to avoid

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

sources. No smoking. Keep away from direct sunlight. Keep at temperature not

exceeding (℃): 25

10.5 Incompatible materials Strong oxidising agents, Acids (Nitric acid and Sulphuric acid), Halogens and

halogenated compounds.

**10.6** Hazardous decomposition products

May decompose in a fire giving off toxic fumes. Carbon dioxide and Carbon

monoxide.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

Acute toxicity - Ingestion Mixture: Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LD50 > 2000 mg/kg

bw/day

Acute toxicity - Inhalation Mixture: Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 20 mg/l.

(Vapour)

Acute toxicity - Skin contact Mixture: Based upon the available data, the classification criteria are not met.

Acute Toxicity Estimate Mixture Calculation: Estimated LD50 > 2000 mg/kg

bw/day

Skin corrosion/irritation Mixture: Skin Irrit. 2: H315: Causes skin irritation.

Toluene Skin Irrit. 2: H315: Causes skin irritation.

Irritating to skin. (rabbit) (EU Method B.4)

ECHA registration dossier

Propan-2-ol Skin Irrit. 2: H315: Causes skin irritation.

EU ECHA Registration Endpoint summary: Irritating to skin. (rabbit)

Serious eye damage/irritation Mixture: Eye Irrit. 2: Causes serious eye irritation.

Propan-2-ol Eye Irrit. 2; H319: Causes serious eye irritation.

Test Result: Irritating to eyes. (rabbit) (OECD 405) ECHA Registration Endpoint

summary

Respiratory or skin sensitisation

Germ cell mutagenicity Carcinogenicity Reproductive toxicity

STOT - single exposure

Aspiration hazard

Other information

11.2

Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met. Mixture: Based upon the available data, the classification criteria are not met.

Mixture: Repr. 2; H361d: Suspected of damaging the unborn child.

Toluene NOAEC: 600 ppm (Ono A et al, 1996)

Mixture: STOT SE 3; H336: May cause drowsiness or dizziness.

Toluene Narcotic effects – (rat) (OECD 403)

Propan-2-ol Narcotic effects – (rat) (OECD 403) **STOT - repeated exposure**STOT RE 2: May cause damage to

STOT RE 2: May cause damage to organs through prolonged or repeated

exposure.

Toluene NOAEL 625 mg/kg bw/day (EU Method B.26)

ECHA registration dossier
Propan-2-ol NOAEL 5000 ppm (OECD 451)

ECHA registration dossier

Asp. Tox. 1; H304: May be fatal if swallowed and enters airways.

Toluene Hydrocarbon. Kinematic Viscosity 0.56 mPa s @20℃

ECHA registration dossier

None Known

## **SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity** Mixture: Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.

Estimated Mixture LC50 > 10 -  $\leq$  100 mg/l (Fish)

Toluene Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.

40 day Chronic toxicity to aquatic organisms NOEC: 1.4mg/L (Fish)

ECHA registration dossier

**12.2** Persistence and degradability The product is biodegradable.

Toluene Readily biodegradable. Propan-2-ol Readily biodegradable.

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Mobility in soil

12.4

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The product has low potential for bioaccumulation. 12.3 Bioaccumulative potential

Toluene The substance has low potential for bioaccumulation.

Propan-2-ol The substance has low potential for bioaccumulation.

The product is predicted to have high mobility in soil. May evaporate quickly.

Toluene The substance has high mobility in soil. Partially soluble. Propan-2-ol The substance has high mobility in soil. Miscible with water.

Not classified as PBT or vPvB.

Results of PBT and vPvB assessment 12.5

Other adverse effects None Known 12.6

### **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods This material and its container must be disposed of as hazardous waste. Dispose

of wastes in an approved waste disposal facility.

Waste classification according to Directive 2008/98/EC (Waste Framework

Directive): HP 3 Flammable

HP 4 Irritant — skin irritation and eye damage

HP 5 Specific Target Organ Toxicity/Aspiration Toxicity

**IMDG** 

HP 10 Toxic to reproduction

HP 14 Ecotoxic

13.2 Additional information Dispose of contents in accordance with local, state or national legislation.

### **SECTION 14: TRANSPORT INFORMATION**

14.1	UN number	UN 1993	UN 1993	UN 1993
14.2	UN proper shipping name	FLAMMABLE LIQUID N.O.S (Toluene / 2-	FLAMMABLE LIQUID N.O.S (Toluene / 2-	FLAMMABLE LIQUID N.O.S (Toluene / 2-
		Propanol)	Propanol)	Propanol)
14.3	Transport hazard class(es)	3	3	3
14.4	Packing group	II	II	II
14.5	Environmental hazards	Not classified	Not classified as a	Not classified
			Marine Pollutant.	

ADR/RID

14.6 See Section: 2 Special precautions for user

14.7 Transport in bulk according to Annex II of Marpol No information available.

and the IBC Code

#### SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the substance or

mixture

15.1.1 **EU** regulations

> Use restriction according to REACH annex XVII, no.: Product: Entry number:: 3

Toluene: Entry number:: 3 40, 48, 75 Propan-2-ol: Entry number:: 3 40, 75

Directive 2012/18/EU on the control of major-accident

hazards involving dangerous substances [Seveso-III-

Directive]

Directive 2010/75/EU on industrial emissions

Solvent VOC-value:

P<sub>5</sub>c

	VOC-value %W/W	Temperature	Method
ĺ	100	20 ℃	calculated

Restrictions of occupation:

Observe restrictions to employment for juvenils according to the 'juvenile work

protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive

(92/85/EEC) for expectant or nursing mothers.

To follow: Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of

workers from the risks related to chemical agents at work

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**GB** Regulations

GB Mandatory classification and labelling list Toluene: Listed Propan-2-ol: Listed

15.1.2 National regulations

Germany

Water hazard class (WGK) strongly hazardous to water (WGK 3)

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

## **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: Not applicable – V1.0

References: Existing Safety Data Sheet (SDS),

Harmonised Classification(s) for 2-Propanol (CAS No. 67-63-0) and Toluene (CAS No. 108-88-3). Existing ECHA registration(s) for) 2-Propanol (CAS No. 67-63-0) and Toluene (CAS No. 108-88-3).

GB Mandatory classification and labelling list: 2-Propanol (CAS No. 67-63-0) and Toluene (CAS No. 108-88-3).

#### Literature References:

1. Ono A, Sekita K, Ogawa Y, Hirose A, Suzuki S, Saito M, Naito K, Kaneko T, Furuya T, Kawashima K, Yasuhara K, Matsumoto K, Tanaka S, Inoue T and Kurokawa Y, 1996, Reproductive and developmental toxicity studies of toluene II. Effects of inhalation exposure on fertility in rats, Journal of Environmental Pathology Toxicology and Oncology 15, 9-20

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830. Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Classification of the substance or mixture.  The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	Classification procedure
Flam. Liq. 2; H225	Flash Point [Open cup] Test Result/ Boiling Point (℃)
Asp. Tox. 1; H304	Threshold Calculation, Expert judgement, Worst case assumption
Skin Irrit. 2; H315	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
STOT SE 3; H336	Threshold Calculation
STOT RE 2; H373	Threshold Calculation
Repr. 2; H361d	Threshold Calculation
Aquatic Chronic 3; H412	Summation Calculation

### Legend

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

AND European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DNEL Derived no effect level
EU European Union
EC European Community
ECHA European Chemicals Agency

EN European Standard

EC50 Effect concentration; 50 % EL50 Effective loading rate; 50 %

IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization

LC50 Lethal concentration at which 50% of the population is killed

LD50 Lethal dose at which 50% of the population is killed

LTEL Long term exposure limit

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NOAEC No observed adverse effect concentration
NOEC No Observed Effect Concentration

OECD Organisation for Economic Cooperation and Development

PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted No Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TWA Time Weighted Average STEL Short term exposure limit

vPvB very Persistent and very Bioaccumulative

UN United Nations

VOC Volatile organic compounds

#### Hazard classification / Classification code:

Flam. Liq. 2; Flammable Liquid, Category 2 Asp. Tox. 1; Aspiration hazard, Category 1 Skin Irrit. 2; Skin corrosion/irritation, Category 2

Eye Irrit. 2; Eye Irritation, Category 2

STOT SE 3; Specific target organ toxicity — single exposure, Category 3

Repr. 2; Reproductive toxicity, Category 2

STOT RE 2; Specific target organ toxicity — repeated exposure, Category

2

Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic,

Category 3

#### Hazard Statement(s)

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.

H361d: Suspected of damaging the unborn child.

H373: May cause damage to organs through prolonged or repeated

exposure.

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.

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Annex to the extended Safety Data Sheet (eSDS) - Not applicable

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