

SÄKERHETSATABLAD

Version: 04

Datum för Upplagan: 06 Mars 2020

Datum Första Upplaga: 20 Mars 2012


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SÄKERHETSATABLAD ENLIGT EG-REGLERNA 1907/2006 (REACH),
1272/2008 (CLP) & 2015/830

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

- 1.1 Product identifier**
Product Name M-Bond Curing Agent 10A
CAS No. Mixture
EINECS No. Mixture
REACH Registration No. None assigned.
- 1.2 Recommended use of the chemical and restrictions on use**
Identified Use(s) Adhesives.
Uses Advised Against None known.
- 1.3 Supplier's details**
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@vishaypg.com
- 1.4 Emergency Phone No.**
Emergency Phone No. (00-1) 703-527-3887 – CHEMTREC
Languages spoken 24 hours, English spoken

2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Regulation (EC) No. 1272/2008 (CLP)** Acute Tox. 4; H302
Acute Tox. 4; H312
Skin Corr. 1B; H314
Skin Sens. 1; H317
Eye Dam. 1; H318
Acute Tox. 2; H330
STOT SE 3; H335
Repr. 1B; H360F
Aquatic Chronic 2; H411
- 2.2 Label elements**
Product Name According to Regulation (EC) No. 1272/2008 (CLP)
M-Bond Curing Agent 10A
- Hazard Pictogram(s)**
- 
- Signal Word(s)** DANGER
- Contains:** 3-azapentan-1,5-diamin and Bisfenol A
- Hazard Statement(s)** H302: Harmful if swallowed.

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H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H330: Fatal if inhaled.
H335: May cause respiratory irritation.
H360F: May damage fertility.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P201: Obtain special instructions before use.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
P310: Immediately call a POISON CENTER/doctor/...

Additional Information

None

2.3 Other hazards

None

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 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)
3-azapentan-1,5-diamin (dietylentriamin)	65-75	111-40-0	203-865-4	Not yet assigned in the supply chain	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Skin Sens. 1; H317 Acute Tox. 2; H330 STOT SE 3; H335
Bisfenol A (4,4'-izopropylidenodifenol)	25-35	80-05-7	201-245-8	Not yet assigned in the supply chain	Skin Sens. 1; H317 Eye Dam. 1; H318 STOT SE 3; H335 Repr. 1B; H360F Aquatic Chronic 2; H411

For full text of H/P Statements see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Wear suitable protective clothing. Do not breathe vapour. Avoid all contact. Do not use mouth-to-mouth resuscitation. Contaminated clothing should be thoroughly cleaned. A washing facility/water for eye and skin cleaning purposes should be present.

Inhalation

IF INHALED: Immediately call a POISON CENTER/doctor. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is laboured, oxygen should be administered by qualified personnel.

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Skin Contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Gently wash with plenty of soap and water. Immediately call a POISON CENTER/doctor.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.
Ingestion	IF SWALLOWED: Rinse mouth. Do not induce vomiting unless instructed to do so by medical personnel. Immediately call a POISON CENTER/doctor.
4.2 Most important symptoms and effects, both acute and delayed	Harmful if swallowed. Harmful in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility.
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically. Fluid build up on the lung (pulmonary oedema) may occur up to 48 hours after exposure and could prove fatal. Patient should be kept under medical observation for at least 48 hours.
Notes to a physician:	IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist. Chemical eye burns may require extended irrigation. IF SWALLOWED: Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture.

5. 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. Alcohol resistant foams (ATC type) are preferred.
	Unsuitable extinguishing media	Halons. Do not use water jet. Direct water jet may spread the fire.
5.2 Special hazards arising from the substance or mixture		May decompose in a fire giving off toxic fumes. Nitrogen oxides, Aldehydes, Carbon monoxide and Carbon dioxide.
5.3 Advice for firefighters		Shut off leaks if without risk. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Evacuate the area and keep personnel upwind. Do not breathe fumes. Use waterspray to 'knock down' vapour, but do not use water jet on a leak of the tank. Avoid run off to waterways and sewers.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures		Ensure adequate ventilation. Stop leak if safe to do so. Use personal protective equipment as required. Avoid all contact. Do not breathe vapour. Ground and bond container and receiving equipment.
6.2 Environmental precautions		Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. 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		Small spillages: Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Transfer to a container for disposal. Large spillages: Dike area to contain the spill and prevent releases to sewers, drains, or other waterways. Use water spray to cool and disperse vapours and protect personnel. Use vacuum equipment for collecting spilt materials, where practicable. 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

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling		Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid all contact. Do not breathe vapour. Ensure adequate ventilation. Use personal protective equipment as required. See
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7.2 Conditions for safe storage, including any incompatibilities

Storage temperature
Storage life
Incompatible materials

Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

Store under inert gas (e.g nitrogen) to prevent ingress of moisture or air into the container. If a container is part emptied flush thoroughly with inert gas prior to resealing. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, sources of ignition and direct sunlight.

Suitable containers: Stainless steel, Aluminium.

Unsuitable containers: Brass, Copper, copper alloy, Bronze.

Ambient. Keep at temperature not exceeding (°C): 27

Protect from moisture. Bulk storage should be under nitrogen blanket.

Keep away from: nitrosating agents, Cellulose Nitrates, Strong oxidising agents, strong bases, Acids, Aldehydes, metals (Copper, Zinc and their alloys) and halogenated compounds, Sawdust.

See Section: 1.2

7.3 Specific end use(s)

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Ämne	CAS-nr	År	Nivågränsvärde (NGV)		Korttidsgränsvärde (KGV)		Anm.	Noter
			ppm	mg/m ³	ppm	mg/m ³		
3-azapentan-1,5-diamin	111-40-0	1996	1	4.5	2	10	H, S, V	-
Bisfenol A	80-05-7	2018	-	2	-	-	R	3

Källa: Hygieniska gränsvärden AFS 2015:7

Anm: H = Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga.

S = Ämnet är sensibiliserande Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper.

V = Vägledande korttidsgränsvärde Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas.

R = Ämnet är reproduktionsstörande. Med reproduktionsstörande ämnen avses ämnen som kan medföra skadliga effekter på fortplantningsförmågan eller avkommans utveckling. Se även föreskrifterna om kemiska arbetsmiljörisiker och om gravida och ammande arbetstagare.

3 = Inhalerbar fraktion

ÄMNET	CAS Nr.	NGV (8h ppm)	NGV (8h mg/m ³)	KTV (ppm)	KTV (mg/m ³)	Anm
Bisfenol A	80-05-7	-	2	-	-	IHG Inhalerbar fraktion

Anm: IHG: Indikerat Hygieniskt Gränsvärde

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. Guarantee that the eye flushing systems and safety showers are located close to the working place.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. 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. Avoid all contact. Do not breathe vapour. Wash hands

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Eye/ face protection



before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place.

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

Recommended: Safety spectacles/goggles/full face shield.

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Recommended: Butyl rubber, Polyethylene, PVC, Polyvinyl Alcohol, Viton, Neoprene.

Respiratory protection



Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Recommended: Organic vapor cartridge with a particulate pre-filter, type AP2

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear Liquid
Odour	Ammoniacal Odour
Odour threshold	Not available.
pH	Not established.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	199°C
Flash point	102°C [Closed cup]
Evaporation rate	Not established.
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Flammable Limits (Lower) (%v/v): 1.4 Flammable Limits (Upper) (%v/v): 9.2
Vapour pressure	<1 @ 27°C
Vapour density	3.56 (Air = 1)
Relative density	1.02 g/cm ³ (H ₂ O = 1)
Solubility(ies)	The product is soluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

None

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions. May decompose if heated.

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10.3	Possibility of hazardous reactions	Hazardous polymerisation will not occur. If spilt substance is absorbed in a rag, the high surface area of the material can allow autoignition at room temperature.
10.4	Conditions to avoid	Keep away from heat and sources of ignition. Keep at temperature not exceeding (°C): 27
10.5	Incompatible materials	Keep away from: nitrosating agents, Cellulose Nitrates, Strong oxidising agents, strong bases, Acids, Aldehydes, metals (Brass, Copper, Bronze, Zinc and their alloys), halogenated compounds, Sawdust.
10.6	Hazardous decomposition products	Decomposes in a fire giving off toxic fumes: Nitrogen oxides, Aldehydes, Carbon monoxide, Carbon dioxide, Ammonia, Volatile Amines.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity

Ingestion

Mixture: Acute Tox. 4; H302: Harmful if swallowed.
Acute Toxicity Estimate Mixture Calculation: LD50: 500 - 1000 mg/kg bw/day.
3-azapentan-1,5-diamin Acute Tox. 4; H302: Harmful if swallowed.

Inhalation

EU Harmonised Classification
Acute Tox. 2; H330: Fatal if inhaled.
Acute Toxicity Estimate Mixture Calculation: LC50 (Vapour): 0.5 – 1.0 mg/l
3-azapentan-1,5-diamin Mixture: Acute Tox. 2; H330: Fatal if inhaled.
NOEL (Air)(rat) mg/l: 0.07 (OECD 403)

Skin Contact

Mixture: Acute Tox. 4; H312: Harmful in contact with skin.
Acute Toxicity Estimate Mixture Calculation: LD50: 1000 - 2000 mg/kg bw/day
3-azapentan-1,5-diamin Acute Tox. 4; H312: Harmful in contact with skin.

Skin corrosion/irritation

EU Harmonised Classification
Mixture: Skin Corr. 1B; H314: Causes severe skin burns and eye damage.
3-azapentan-1,5-diamin Skin Corr. 1B; H314: Causes severe skin burns and eye damage.
EU Harmonised Classification. Corrosive to skin. (rabbit) (Unnamed publication , 1957)

Serious eye damage/irritation

Mixture: Eye Dam. 1; H318: Causes serious eye damage.
3-azapentan-1,5-diamin Eye Dam. 1; H318: Causes serious eye damage.
Corrosive to eyes. (Unnamed publication , 1970)
Bisfenol A Eye Dam. 1; H318: Causes serious eye damage.

Respiratory or skin sensitisation

EU Harmonised Classification. Corrosive to eyes. (rabbit) (OECD 405)
Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.
3-azapentan-1,5-diamin Skin Sens. 1; H317: May cause an allergic skin reaction.
EU Harmonised Classification. Skin sensitization: Positive (mouse) (OECD 429)
Bisfenol A Skin Sens. 1; H317: May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

EU Harmonised Classification. Skin sensitization: Negative (mouse) (OECD 406)
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. 1B; H360F: May damage fertility.
Bisfenol A Repr. 1B; H360F: May damage fertility. EU Harmonised Classification.
NOAEL (mouse): 300 ppm Body weight (OECD 416).

STOT - single exposure

Mixture: STOT SE 3; H335: May cause respiratory irritation.
3-azapentan-1,5-diamin STOT SE 3; H335: May cause respiratory irritation.
May cause pulmonary oedema.(rat) (Unnamed publication , 1970) (OECD 403)
Bisfenol A STOT SE 3; H335: May cause respiratory irritation.
EU Harmonised Classification.

STOT - repeated exposure

Aspiration hazard

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

11.2 Other information

None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

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

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		Estimated Mixture LC50 \leq 1 mg/l (Fish)
	Bisfenol A	Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects. LC50 (fish) mg/l: 3.0 – 8.3 (OECD 203) NOEC (Fish): 0.016 mg/L (Unnamed publication , 2000)
12.2	Persistence and degradability	Mixture: No data for the mixture as a whole.
	3-azapentan-1,5-diamin	Readily biodegradable. (OECD 302A)
	Bisfenol A	Readily biodegradable. (OECD 301F)
12.3	Bioaccumulative potential	Mixture: No data for the mixture as a whole.
	3-azapentan-1,5-diamin	The substance has low potential for bioaccumulation. Bioconcentration factor (BCF) : < 6.3 l/kg (Fish) (OECD 305C) EU ECHA Registration Endpoint summary.
	Bisfenol A	The substance has low potential for bioaccumulation. Bioconcentration factor (BCF) : < 73 l/kg (Fish) EU ECHA Registration Endpoint summary.
12.4	Mobility in soil	Mixture: No data for the mixture as a whole.
	3-azapentan-1,5-diamin	The substance has low mobility in soil. Koc: 19111 l/kg @ 25 °C; Log(Koc): 4.3 l/kg @ 25 °C (U nnamed publication , 1991). EU ECHA Registration Endpoint summary.
	Bisfenol A	The substance has moderate mobility in soil. Koc: 750 l/kg @ 25 °C. EU ECHA Registration Endpoint summary.
12.5	Results of PBT and vPvB assessment	Mixture: 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.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	This material and its container must be disposed of as hazardous waste. Send after pre-treatment to a appropriate hazardous waste incinerator facility according to legislation.
13.2	Additional Information	Dispose of contents in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
14.1	UN number	UN 2927	UN 2927
14.2	Proper Shipping Name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (CONTAINS 3-azapentan-1,5-diamin)	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (CONTAINS 3-azapentan-1,5-diamin)
14.3	Transport hazard class(es)	6.1 + 8	6.1 + 8
14.4	Packing group	II	II
14.5	Environmental hazards	Environmentally hazardous substance	Classified as a Marine Pollutant. Environmentally hazardous substance
14.6	Special precautions for user	See Section: 2	
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable	
14.8	Additional Information	None	

15. 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 Substance(s) of Very High Concern (SVHCs)	No components of the mixture are listed No components of the mixture are listed

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CoRAP Substance Evaluation

Bisfenol A: Substance evaluated in 2012; evaluating Member State has proposed to ask the registrants to provide further information.

15.1.2 National regulations

Germany

Sverige

Water hazard class: 2 (Self classification)

3-azapentan-1,5-diamin, Bisfenol A: PRIO Databas (KEMI)

Bisfenol A: Begränsningsdatabasen (KEMI)

Not available.

15.2 Chemical Safety Assessment

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 2.2; 7.2; 10.5; 11.1; 11.2; 12.1 – 12.6; 16 (LEGEND). Replaces: V.03

The following sections have updates indicated by :

References: Existing Safety Data Sheet (SDS), Existing ECHA registration(s) and Harmonised Classification(s) for 3-azapentan-1,5-diamin (CAS No. 111-40-0) and Bisfenol A (CAS No. 80-05-7).

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Acute Tox. 4; H302	Acute Toxicity Estimate Mixture Calculation
Acute Tox. 4; H312	Acute Toxicity Estimate Mixture Calculation
Skin Corr. 1B; H314	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Dam. 1; H318	Threshold Calculation
Acute Tox. 2; H330	Acute Toxicity Estimate Mixture Calculation
STOT SE 3; H335	Threshold Calculation
Repr. 2; H361F	Threshold Calculation
Aquatic Chronic 2; H411	Summation Calculation

LEGEND

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

CAS: Chemical Abstracts Service

IATA: International Air Transport Association

IMDG: International Maritime Dangerous Goods

NOEC: no observed effect concentration

NOEL: no observed effect level

OECD: Organisation for Economic Cooperation and Development

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No Effect Concentration

RID: Regulations concerning the international railway transport of dangerous goods

vPvB: very Persistent and very Bioaccumulative

Hazard Class / Classification code:

Acute Tox. 4; Acute toxicity, Category 4

Acute Tox. 4; Acute toxicity, Category 4

Skin Corr. 1B; Skin corrosion/irritation, Category 1B

Skin Sens. 1 ; Skin sensitisation, category 1

Eye Dam. 1; Serious eye damage/irritation, Category 1

Acute Tox. 2; Acute toxicity, Category 2

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

Repr. 1B; Reproductive toxicity, Category 1B

Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic , Category 2

Hazard Statement(s)

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H330: Fatal if inhaled.

H335: May cause respiratory irritation.

H360F: May damage fertility.

H411: Toxic 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)

No information available.

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