

# SAFETY DATA SHEET

## Formaldehyde


Revision: 1.0 Date: 06/11/2019

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

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

<b>1.1 Product identifier</b>	
Product Name	Formaldehyde
Product code(s)	EA0026 & EA0027
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified Use(s)	Medication for Koi carp
Uses Advised Against	For use only with Koi
<b>1.3 Details of the supplier of the safety data sheet</b>	
Company Identification	Evolution Aqua Ltd. Kellet Close, Wigan, Lancashire United Kingdom 01942 216 554 Not available. <a href="mailto:info@evolutionaqua.com">info@evolutionaqua.com</a>
Telephone	
Fax	
E-Mail (competent person)	
<b>1.4 Emergency telephone number</b>	+44 (0) 1942 216554 (Monday - Friday, GMT 08:30 - 17:00)
Languages spoken	English

### SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
<b>2.1.1 Regulation (EC) No. 1272/2008 (CLP)</b>	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Eye Dam. 1; H318 Acute Tox. 3; H331 Muta. 2; H341 Carc. 1B; H350 STOT SE 2; H371
<b>2.2 Label elements</b>	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	Formaldehyde
Contains:	Formaldehyde, Methanol
Hazard Pictogram(s)	
Signal Word(s)	DANGER
Hazard Statement(s)	H301: Toxic if swallowed. H311: Toxic in contact with skin. H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. H331: Toxic if inhaled.

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H341: Suspected of causing genetic defects.

H350: May cause cancer.

H371: May cause damage to organs.

### Precautionary Statement(s)

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

P102: Keep out of reach of children.

P201: Obtain special instructions before use.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P501: Dispose of contents in accordance with local, state or national legislation.

### 2.3 Other hazards

None known.

## 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 classification
Formaldehyde	>25	50-00-0	200-001-8	Not yet assigned in the supply chain	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Muta. 2; H341 Carc. 1B; H350 <b>Specific Concentration Limit</b> Skin Corr. 1B; H314: $\geq 25\%$ Skin Irrit. 2; H315: $\geq 5\% < 25\%$ Eye Irrit. 2; H319: $\geq 5\% < 25\%$ STOT SE 3; H335: $\geq 5\%$ Skin Sens. 1; H317: $\geq 0.2\%$
Methanol	3 – 10	67-56-1	200-659-6	Not yet assigned in the supply chain	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 STOT SE 3; H370 <b>Specific Concentration Limit</b> STOT SE 1; H370: $C \geq 10\%$ STOT SE 2; H371: $3\% \leq C < 10\%$

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

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Self-protection of the first aider

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not

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Inhalation	<p>breathe vapour. Avoid all contact. Contaminated clothing should be laundered before reuse. Do not ingest. If swallowed then seek immediate medical assistance.</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Apply artificial respiration if breathing has ceased or shows signs of failing. Do not use mouth-to-mouth resuscitation. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention.</p>
Skin Contact	<p>IF ON SKIN (or hair): Remove contaminated clothing and wash all affected areas with plenty of water. Wash contaminated clothing before reuse. If irritation (redness, rash, blistering) develops, get medical attention. IF exposed or concerned: Get medical advice/attention.</p>
Eye Contact	<p>IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain prompt consultation, preferably from an ophthalmologist.</p>
Ingestion	<p>IF SWALLOWED: Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Get medical advice/attention if you feel unwell. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.</p>
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	<p>Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic if inhaled. Suspected of causing genetic defects. May cause cancer. May cause damage to organs. The ingestion of significant quantities may cause pulmonary oedema. Single large oral doses may result in such adverse effects as: disturbance of vision, skin irritation.</p>
<b>4.3 Indication of any immediate medical attention and special treatment needed</b> Notes to a physician:	<p>Treat symptomatically</p> <p>IF SWALLOWED: NOTE TO PHYSICIANS: Treat by observation and supportive measures as indicated by the patients condition. Administration of 100 ml of a solution containing 2% ammonium carbonate and 20% urea</p> <p>IF IN EYES: Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.</p>

### SECTION 5: FIREFIGHTING MEASURES

<b>5.1 Extinguishing media</b> Suitable Extinguishing media	<p>Not flammable but will support combustion. As appropriate for surrounding fire. Water spray, foam, dry powder or CO2.</p>
Unsuitable extinguishing media	<p>Do not use water jet. Direct water jet may spread the fire.</p>
<b>5.2 Special hazards arising from the substance or mixture</b>	<p>Product is not classified as flammable, but will burn on contact with flame or exposure to high temperature. Decomposition products may include carbon oxides.</p>
<b>5.3 Advice for fire-fighters</b>	<p>Fight fire with normal precautions from a reasonable distance. Keep containers cool by spraying with water if exposed to fire. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep upwind. Avoid all contact. Do not allow run-off from fire fighting to enter drains or water courses. Dispose of contaminated extinction water according to official regulations.</p>

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	<p>Caution - spillages may be slippery. Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. Avoid generation of mist. Eliminate sources of ignition. Shut off leaks if without risk. Take off contaminated clothing. Ensure suitable personal protection during removal of spillages. Avoid all contact. Do not breathe vapour. Do not ingest. If swallowed then seek immediate medical assistance.</p>
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- 6.2 Environmental precautions** Avoid release to the environment. Do not flush spilt material into any public water system. Do not allow to enter drains, sewers or watercourses.
- 6.3 Methods and material for containment and cleaning up** Absorb spillage in inert material and shovel up. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Avoid release to the environment. Disposal should be in accordance with local, state or national legislation.
- 6.4 Reference to other sections** See Section: 8, 10, 13

### SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Do not breathe vapour. Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Avoid all contact. Do not ingest. If swallowed then seek immediate medical assistance. Wear protective gloves/eye protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Provide adequate ventilation to avoid build up of vapours. Avoid generation of mist. Keep good industrial hygiene. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep container in a well-ventilated place. Keep container tightly closed and dry. Keep away from food, drinks and animal food. Stable at ambient temperatures. 3 years. Keep in a cool, dry, well ventilated place.
- Storage temperature
- Storage life
- Incompatible materials Strong acids and alkali. Strong reducing and oxidising agents. Avoid contact with alkali metals. Isocyanates. Aniline, Peroxides, Amines, Acid chlorides, acid anhydrides, strong bases, Phenols and halogenated phenols.
- Appropriate packaging Store in packaging provided. Recommended: Stainless steel, High density polyethylene (HDPE),
- 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/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Formaldehyde	50-00-0	2	2.5	2	2.5	WEL
Methanol	67-56-1	200	266	250	333	WEL
		260	200	-	-	IOELV, Sk

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

Note: 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. Keep good industrial hygiene. Keep away from heat, sources of ignition and direct sunlight. Avoid all contact. Do not breathe vapour. Guarantee that the eye flushing systems and safety showers are located close to the working place. Do not eat, drink or smoke at the work place.
- 8.2.2 Individual protection measures, such as personal protective equipment (PPE)** Use personal protective equipment as required. Ensure adequate ventilation. Avoid generation of mist. Keep good industrial hygiene. Contaminated clothing should be thoroughly cleaned. Wash hands and exposed skin thoroughly after handling.

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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 eyewear (goggles, face shield, or safety glasses).

Recommended: Wear goggles giving complete protection to eyes to protect against liquid splashes (EN166).

Skin protection



**Hand protection:** Wear impervious gloves (EN374). Protective index 6, corresponding > 480 minutes of permeation time according to EN 374 Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

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

Respiratory protection



In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protective equipment should conform to the appropriate EN standard. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

Thermal hazards

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	Colourless liquid
Odour	Not determined
Odour threshold	Not determined
pH	3-4
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	Not determined
Solubility(ies)	Completely soluble in water.
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not determined
Explosive properties	Not explosive
Oxidising properties	Not oxidising

### 9.2 Other information

None known.

## SECTION 10: STABILITY AND REACTIVITY

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

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10.3	Possibility of hazardous reactions	None known. Hazardous polymerisation will not occur.
10.4	Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight. Elevated temperature.
10.5	Incompatible materials	Strong acids and alkali. Strong reducing and oxidising agents. Avoid contact with alkali metals. Isocyanates. Aniline, Peroxides, Amines, Acid chlorides, acid anhydrides, strong bases, Phenols and halogenated phenols.
10.6	Hazardous decomposition product(s)	Decomposition products may include carbon oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects (Substances in preparations / mixtures)	
	Acute toxicity - Ingestion	Mixture: Acute Tox. 3; H301: Toxic if swallowed. Acute Toxicity Estimate Mixture Calculation: LD50 >50 – ≤300 mg/kg bw/day Acute Tox. 3; H301: Toxic if swallowed. Harmonised Classification. LD50 (oral,rat) mg/kg: 640 (OECD 401)
	Formaldehyde	
	Methanol	Acute Tox. 3; H301: Toxic if swallowed. Harmonised Classification LD50 (oral,rat) mg/kg: 1187 (OECD 401)
	Acute toxicity - Inhalation	Mixture: Acute Tox. 3; H331: Toxic if inhaled. Acute Toxicity Estimate Mixture Calculation: LC50 Vapour >2 - ≤10 mg/l Acute Tox. 3; H331: Toxic if inhaled. Harmonised Classification LC50 (inhalation) mg/l/4h: <463ppm (OECD 403)
	Formaldehyde	
	Methanol	Acute Tox. 3; H331: Toxic if inhaled. Harmonised Classification. LC50 (Inhalation) mg/l: 43.68 (Von Burg, R, 1994)
	Acute toxicity - Skin Contact	Mixture: Acute Tox. 3; H311: Toxic in contact with skin. Acute Toxicity Estimate Mixture Calculation: LD50 >200 - ≤1000 mg/kg bw/day Acute Tox. 3; H311: Toxic in contact with skin. Harmonised Classification
	Formaldehyde	
	Methanol	Acute Tox. 3; H311: Toxic in contact with skin. Harmonised Classification
	Skin corrosion/irritation	Mixture: Skin Corr. 1B; H314: Causes severe skin burns and eye damage. Skin Corr. 1B; H314: Causes severe skin burns and eye damage. Causes skin necrosis. Mean erythema score: 2.5, Mean edema score: 3 (rabbit) (OECD 404)
	Formaldehyde	
	Serious eye damage/irritation	Mixture: Eye Dam. 1; H318: Causes serious eye damage. Eye Dam. 1; H318: Causes serious eye damage. Classified as Skin Corr. 1B; H314 - (rabbit) (Carpenter CP & Smith HF, 1946)
	Formaldehyde	
	Respiratory or skin sensitization	Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction. Skin Sens. 1; H317 Harmonised Classification. Skin sensitization: Sensitisation (mouse) - Positive (OECD 429)
	Formaldehyde	
	Germ cell mutagenicity	Mixture: Muta. 2; H341: Suspected of causing genetic defects. Muta. 2; H341 Harmonised Classification. In vitro: Human FANCB-deficient cells are found to be very sensitive to formaldehyde (Rosado, I.V. et al., 2011) In vivo: Clear dose-response trends at all three exposure durations with increases seen at 6, 10, and 15 ppm but not at the two lower exposure concentrations. (Andersen, M.E. et al., 2010)
	Formaldehyde	
	Carcinogenicity	Mixture: Carc. 1B; H350: May cause cancer. Carc. 1B; H350 Harmonised Classification. Local effects, Stomach (rat), Chronic oral exposure. NOAEC 10 mg/kg bw/day (Tobe M. et al., 1989)
	Formaldehyde	
	Reproductive toxicity	Based on available data, the classification criteria are not met.
	STOT - single exposure	Mixture: STOT SE 2; H371: May cause damage to organs.
	Methanol	STOT SE 1; H370: Causes damage to organs: Central nervous system. Harmonised Classification
	STOT - repeated exposure	Based on available data, the classification criteria are not met.
	Aspiration hazard	Based on available data, the classification criteria are not met.
11.2	Other information	None known.

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### SECTION 12: ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	Mixture: Based on available data, the classification criteria are not met. Estimated LC50 (96 hour) Fish >100 mg/l
12.2	<b>Persistence and degradability</b> Formaldehyde Methanol	No data for the mixture as a whole. Part of the components are biodegradable. Readily biodegradable. (OECD 301 A) Degradation of methanol was higher under aerobic than anaerobic conditions..
12.3	<b>Bioaccumulative potential</b> Formaldehyde  Methanol	No data for the mixture as a whole. BCF < 1 (Jung SH, et al, 2001) The substance has low potential for bioaccumulation. The substance has low potential for bioaccumulation. Bioconcentration factor (BCF): 1
12.4	<b>Mobility in soil</b> Formaldehyde  Methanol	No data for the mixture as a whole. The substance is predicted to have moderate mobility in soil. Koc: 15.9 (BASF SE 2008) The substance has high mobility in soil. Miscible with water.
12.5	<b>Results of PBT and vPvB assessment</b>	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	<b>Other adverse effects</b>	None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods</b>	Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body. Dispose of contents in accordance with local, state or national legislation.
13.2	<b>Additional Information</b>	Containers must be decontaminated in accordance with all applicable regulations. Liquid product may not be disposed of with household waste or landfilled. Do not allow to enter into drains/waters or in the soil.

### SECTION 14: TRANSPORT INFORMATION

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA/ICAO</b>
14.1	<b>UN number</b>	UN2810	UN2810
14.2	<b>UN proper shipping name</b>	TOXIC LIQUID, ORGANIC, N.O.S. (Formaldehyde, methanol)	TOXIC LIQUID, ORGANIC, N.O.S. (Formaldehyde, methanol)
14.3	<b>Transport hazard class(es)</b>	6.1	6.1
14.4	<b>Packing group</b>	III	III
14.5	<b>Environmental hazards</b>	Not classified.	Not classified as a Marine Pollutant.
14.6	<b>Special precautions for user</b>	See Section: 2	
14.7	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.	Not applicable.
14.8	<b>Additional Information</b>	None.	

### SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1	<b>EU regulations</b> Authorisations and/or Restrictions On Use	Formaldehyde: In accordance with REACH Annex XVII, this substance is exempt from Entry 28 of REACH Annex XVII, as it is placed on the market to the general public as a medicinal or veterinary product as defined by Directive 2001/82/EC and Directive 2001/83/EC.



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CoRAP Substance Evaluation

Formaldehyde: Substance evaluated in 2013; evaluating Member State has proposed to ask the registrants to provide further information.

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

### 15.1.2 National regulations

Germany

Water hazard class: 2

### 15.2 Chemical Safety Assessment

A chemical safety assessment is not required under REACH.

## SECTION 16: OTHER INFORMATION

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

**References:** Safety Data Sheets for ingoing ingredients. Harmonised Classification(s) for Formaldehyde (CAS No. 50-00-0), Methanol (CAS No. 67-56-1). Existing ECHA registration(s) for Formaldehyde (CAS No. 50-00-0), Methanol (CAS No. 67-56-1).

### Literature References:

- 1) Carpenter CP & Smith HF, 1946, Chemical burns of the rabbit cornea, Am J Ophthal 29: 1363-1372.
- 2) Rosado, I.V. et al, 2011, Formaldehyde catabolism is essential in cells deficient for the Fanconi anemia DNA repair pathway, Nature Struc. & Mol. Bio. 18 (12): 1432-1434
- 3) Tobe M, Naito K, Kurokawa Y, 1989, Chronic toxicity study on formaldehyde administered orally to rats, Toxicology 56: 79-86
- 4) von Burg, R, 1994. Methanol. J Appl Toxicol 14(4): 309-313

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

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP).	Classification Procedure
Acute Tox. 3; H301	Acute Toxicity Estimate (ATE) Calculation.
Acute Tox. 3; H311	Acute Toxicity Estimate (ATE) Calculation.
Skin Corr. 1B; H314	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Dam. 1; H318	Threshold Calculation
Acute Tox. 3; H331	Acute Toxicity Estimate (ATE) Calculation.
Muta. 2; H341	Threshold Calculation
Carc. 1B; H350	Threshold Calculation
STOT SE 2; H371	Threshold Calculation

### Hazard classification / Classification code:

Flam. Liq. 2; Flammable Liquid, Category 2  
Acute Tox. 3; Acute toxicity, Category 3  
Acute Tox. 3; Acute toxicity, Category 3  
Skin Corr. 1B; Skin corrosion/irritation, Category 1B  
Skin Sens. 1; Skin Sensitisation, Category 1  
Eye Dam. 1; Eye damage, category 1  
Acute Tox. 3; Acute toxicity, Category 3  
Muta. 2; Germ cell mutagenicity, Category 2  
Carc. 1B; Carcinogenicity, Category 1B

### Hazard Statement(s)

H225: Highly flammable liquid and vapour.  
H301: Toxic if swallowed.  
H311: Toxic in contact with skin.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H331: Toxic if inhaled.  
H341: Suspected of causing genetic defects.  
H350: May cause cancer.



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STOT SE 1; Specific target organ toxicity — single exposure, Category 1 H370: Causes damage to organs.  
STOT SE 2; Specific target organ toxicity — single exposure, Category 2 H371: May cause damage to organs.

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.