SAFETY DATA SHEET

FMG

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

1.1 Product identifier

Product Name	FMG
Product code(s)	EA0028 & EA0029

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

Identified Use(s)	Medication for Koi carp
Uses Advised Against	For use only with Koi.

1.3 Details of the supplier of the safety data sheet

Company Identification	Evolution Aqua Ltd. Kellet Close, Wigan, Lancashire United Kingdom
Telephone	01942 216 554
Fax	Not available.
E-Mail (competent person)	info@evolutionaqua.com

1.4 Emergency telephone number +44 (0) 1942 216554 (Monday - Friday, GMT 08:30 - 17:00)

Languages spoken English

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 Irrit. 2; H315
Skin Sens. 1; H317
Eye Irrit. 2; H319
Acute Tox. 4; H332
Muta. 2; H341
Carc. 1B; H350
STOT SE 2; H371
Aquatic Chronic 3; H412

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

Product Name FMG

Contains: Formaldehyde, Methanol, Malachite Green

Hazard Pictogram(s)

Signal Word(s) DANGER

Hazard Statement(s)

H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.

H341: Suspected of causing genetic defects.
H350: May cause cancer.
H371: May cause damage to organs.
H412: Harmful to aquatic life with long lasting effects.

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.
P271: Use only outdoors or in a well-ventilated area.
P405: Store locked up.
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	20 - 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 **Specific Concentration Limit** Skin Corr. 1B; H314: >= 25% Skin Irrit. 2; H315: >= 5% < 25% Eye Irrit. 2; H319: >= 5% < 25% STOT SE 3; H335: >= 5% Skin Sens. 1; H317: >= 0.2%
Methanol	1 – 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 **Specific Concentration Limit** STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %
Malachite Green Oxalate	< 3	2437-29-8	219-441-7	Not yet assigned in the supply chain	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr .2; H361d Aquatic Acute.1; H400 Aquatic Chronic.1; H410

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 breathe vapour. Avoid all contact. Contaminated clothing should be laundered before reuse. Do not ingest. If swallowed then seek immediate medical assistance.
Inhalation	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.
Skin Contact	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.
Eye Contact	IF IN EYES: Remove contact lenses if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists: Get medical advice/attention.
Ingestion	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.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful 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.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Notes to a physician:	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

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	Not flammable but will support combustion. As appropriate for surrounding fire. Water spray, foam, dry powder or CO2.
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

Product is not classified as flammable, but will burn on contact with flame or exposure to high temperature. Decomposition products may include carbon oxides.

5.3 Advice for fire-fighters

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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.

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.

Storage temperature: Stable at ambient temperatures.

Storage life: 3 years. Keep in a cool, dry, well ventilated place.

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/m³)	STEL (ppm)	STEL (mg/m³)	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.

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	Dark Blue solution
Odour	Not determined
Odour threshold	Not determined
pH	2.16 – Measured neat
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)	Not determined
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.
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. 4; H302: Harmful if swallowed. Acute Toxicity Estimate Mixture Calculation: LD50 300 - 2000 mg/kg bw/day
Formaldehyde	Acute Tox. 3; H301: Toxic if swallowed. Harmonised Classification. LD50 (oral,rat) mg/kg: 640 (OECD 401)
Methanol	Acute Tox. 3; H301: Toxic if swallowed. Harmonised Classification LD50 (oral,rat) mg/kg: 1187 (OECD 401)
Malachite Green	Acute Tox. 4; H302: Harmful if swallowed. Harmonised Classification
Acute toxicity - Inhalation	Mixture: Acute Tox. 4; H332: Harmful if inhaled. Acute Toxicity Estimate Mixture Calculation: LC50 Vapour 10 - 20 mg/l
Formaldehyde	Acute.Tox. 3; H331: Toxic if inhaled. Harmonised Classification LC50 (inhalation) mg/l/4h: <463ppm (OECD 403)
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. 4; H312: Harmful in contact with skin. Acute Toxicity Estimate Mixture Calculation: LD50 1000 - 2000 mg/kg bw/day
Formaldehyde	Acute Tox. 3; H311: Toxic in contact with skin. Harmonised Classification
Methanol	Acute Tox. 3; H311: Toxic in contact with skin. Harmonised Classification
Skin corrosion/irritation	Mixture: Skin Irrit. 2: H315: Causes skin irritation.
Formaldehyde	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)
Serious eye damage/irritation	Mixture: Eye Irrit. 2: H319: Causes serious eye irritation.
Formaldehyde	Eye Dam. 1; H318: Causes serious eye damage. Classified as Skin Corr. 1B; H314 - (rabbit) (Carpenter CP & Smith HF, 1946)
Malachite Green	Eye Dam. 1; H318: Causes serious eye damage. Severe irritant to rabbit eyes. (Steen Cleinmensen, Jørn C., et al., 1984)
Respiratory or skin sensitization	Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.
Formaldehyde	Skin Sens. 1; H317 Harmonised Classification. Skin sensitization: Sensitisation (mouse) - Positive (OECD 429)
Germ cell mutagenicity	Mixture: Muta. 2; H341: Suspected of causing genetic defects.
Formaldehyde	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)
	Carcinogenicity	Mixture: Carc. 1B; H350: May cause cancer.
	Formaldehyde	Carc. 1B; H350 Harmonised Classification. Local effects, Stomach (rat), Chronic oral exposure. NOAEC 10 mg/kg bw/day (Tobe M. et al., 1989)
	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.

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Mixture: Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. Estimated LC50 (96 hour) Fish >10 - ≤100 mg/l
	Malachite Green	Aquatic Acute 1; H400: Very toxic to aquatic life. LC50: 0.28 mg/L (Rasbora heteromorpha) (Alabaster, JS, 1969) Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects. NOEC: 0.02 mg/L (Danio rerio) (Meinelt, T., et al., 1992)
12.2	**Persistence and degradability**	Not established. Part of the components are biodegradable.
	Formaldehyde	Readily biodegradable. (OECD 301 A)
	Methanol	Degradation of methanol was higher under aerobic than anaerobic conditions..
	Malachite Green	No data
12.3	**Bioaccumulative potential**	Not established.
	Formaldehyde	BCF < 1 (Jung SH, et al, 2001) The substance has low potential for bioaccumulation.
	Methanol	The substance has low potential for bioaccumulation. Bioconcentration factor (BCF): 1
	Malachite Green	No data
12.4	**Mobility in soil**	Not established.
	Formaldehyde	The substance is predicted to have moderate mobility in soil. Koc: 15.9 (BASF SE 2008)
	Methanol	The substance has high mobility in soil. Miscible with water.
	Malachite Green	No data
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**	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	**Additional Information**	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

		ADR/RID	**IMDG**	**IATA/ICAO**
14.1	**UN number**	UN2810	UN2810	UN2810

14.2	**UN proper shipping name**	TOXIC LIQUID, ORGANIC, N.O.S. (Formaldehyde, methanol, malachite Green)	TOXIC LIQUID, ORGANIC, N.O.S. (Formaldehyde, methanol, malachite Green)	TOXIC LIQUID, ORGANIC, N.O.S. (Formaldehyde, methanol, malachite Green)
14.3	**Transport hazard class(es)**	6.1	6.1	6.1
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.	Not applicable.	Not applicable.
14.8	**Additional Information**	None.		

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	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.
	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), Malachite Green (CAS No. 2437-29-8). 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) Meinelt, T., Stüber, A., Staaks, G.: The practicability of an embryo brood test with the zebrafish (Danio rerio HAMILTON-BUCHANAN), illustrated by the example of therapeutically used therapeutics; Fi sch.wiss 10 (1992), pp. 111-113
3) 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
4) Steen Cleinmensen, Jørn C., et al., 1984, Toxicological studies on malachite green: A triphenylmethane dye, Archives of Toxicology, 56, pp. 43-45.
5) Tobe M, Naito K, Kurokawa Y, 1989, Chronic toxicity study on formaldehyde administered orally to rats, Toxicology 56: 79-86
6) 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. 4; H302	Acute Toxicity Estimate (ATE) Calculation.
Acute Tox. 4; H312	Acute Toxicity Estimate (ATE) Calculation.
Skin Irrit. 2; H315	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
Acute Tox. 4; H332	Acute Toxicity Estimate (ATE) Calculation.
Muta. 2; H341	Threshold Calculation
Carc. 1B; H350	Threshold Calculation
STOT SE 2; H371	Threshold Calculation
Aquatic Chronic 3; H412	Summation Calculation

Hazard classification / Classification code:	Hazard Statement(s)
Acute Tox. 3; Acute toxicity, Category 3	H301: Toxic if swallowed.
Acute Tox. 4; Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute Tox. 3; Acute toxicity, Category 3	H311: Toxic in contact with skin.
Acute Tox. 4; Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin Corr. 1B; Skin corrosion/irritation, Category 1B	H314: Causes severe skin burns and eye damage.
Skin Irrit. 2; Skin corrosion/irritation, Category 2	H315: Causes skin irritation.
Skin Sens. 1; Skin Sensitisation, Category 1	H317: May cause an allergic skin reaction.
Eye Dam. 1; Eye damage, category 1	H318: Causes serious eye damage.
Eye Irrit. 2; Eye Irritation, Category 2	H319: Causes serious eye irritation.
Acute Tox. 3; Acute toxicity, Category 3	H331: Toxic if inhaled.
Acute Tox. 4; Acute toxicity, Category 4	H332: Harmful if inhaled.
Muta. 2; Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Carc. 1B; Carcinogenicity, Category 1B	H350: May cause cancer.
Repr. 2; Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
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.
Aquatic Acute 1; Hazardous to the aquatic environment, Acute, Category 1	H400: Very toxic to aquatic life.
Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic , Category 1	H410: Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic , Category 3	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.