SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 and The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720

Issuing Date 23-Nov-2022 **Revision Date** 23-Nov-2022 **Revision Number** 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name Metafix

Synonyms None

Pure substance/mixture Mixture

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

Recommended use Embalming chemical

Uses advised against Use only for intended applications

1.3. Details of the supplier of the safety data sheet

Manufacturer
The MazWell Group Ltd.
Units 11/14-15 Ardglen Industrial Estate
Whitchurch, Hampshire
RG28 7BB, United Kingdom
+44 (0)1256-893883
+44 (0)1256-893868
enquiries@themazwellgroup.com

Supplier
MazWell Australia Pty Ltd
Unit 5-29 Governor Macquarie Drive, Chipping Norton,
NSW, 2170, Australia
02 8214 4655 (Mon-Fri 8.30am-4.30pm AEST)

For further information, please contact
E-mail address info@themazwellgroup.com.au

1.4. Emergency telephone number

Emergency telephone +61 (0)2 8214 4655 (Mon-Fri 8.30am-4.30pm AEST)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids	Category 3 - (H226)
Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 3 - (H311)
Acute toxicity - Inhalation (Gases)	Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Germ cell mutagenicity	Category 2 - (H341)
Carcinogenicity	Category 1B - (H350)
Specific target organ toxicity — single exposure	Category 1 Category 3 - (H370, H335)

2.2. Label elements

Contains Formaldehyde, Methanol

Signal word
Danger

Hazard statements
H302 - Harmful if swallowed.
H311 - Toxic in contact with skin.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H341 - Suspected of causing genetic defects.
H350 - May cause cancer.
H370 - Causes damage to organs.
H226 - Flammable liquid and vapour.

Precautionary statements
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.
P391 - Collect spillage.

Unknown acute toxicity
11.97546 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

Unknown aquatic toxicity Contains 0.0998 % of components with unknown hazards to the aquatic environment.

Additional information
This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Formaldehyde 50-00-0	10 - < 25	(605-001-00-5) 200-001-8	-	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 1B (H350)	Eye Irrit. 2 :: 5%<=C<25% Skin Corr. 1B :: C>=25% Skin Irrit. 2 :: 5%<=C<25% Skin Sens. 1 :: C>=0.2% STOT SE 3 :: C>=5%	-	-
Methanol 67-56-1	10 - < 25	200-659-6	-	Flam. Liq. 2 (H225) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	-	-
Propylene Glycol 57-55-6	< 1	200-338-0	-	-	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

Chemical name	CAS No	SVHC candidates
Formaldehyde	50-00-0	-
Methanol	67-56-1	-
Propylene Glycol	57-55-6	-

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention. May cause an allergic skin reaction.

Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing vapours or mists.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up.

7.3. Specific end use(s)

Specific use(s) No information available.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
Formaldehyde 50-00-0	TWA: 2 ppm TWA: 2.5 mg/m^3 STEL: 2 ppm STEL: 2.5 mg/m^3
Methanol	TWA: 200 ppm

67-56-1	TWA: 266 mg/m³ STEL: 250 ppm STEL: 333 mg/m³ Sk*
Propylene Glycol 57-55-6	TWA: 150 ppm TWA: 474 mg/m³ TWA: 10 mg/m³ STEL: 450 ppm STEL: 1422 mg/m³ STEL: 30 mg/m³

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Formaldehyde 50-00-0		240 mg/kg bw/day [4] [6] 37 µg/cm2 [5] [6]	9 mg/m³ [4] [6] 0.375 mg/m³ [5] [6] 0.75 mg/m³ [5] [7]
Methanol 67-56-1		20 mg/kg bw/day [4] [6] 20 mg/kg bw/day [4] [7]	130 mg/m³ [4] [6] 130 mg/m³ [4] [7] 130 mg/m³ [5] [6] 130 mg/m³ [5] [7]
Propylene Glycol 57-55-6			168 mg/m³ [4] [6] 10 mg/m³ [5] [6]
C9-11 Alcohol ethoxylate 68439-46-3		2080 mg/kg bw/day [4] [6]	294 mg/m³ [4] [6]
Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) 139-89-9			88 mg/m³ [4] [6] 10 mg/m³ [5] [6]
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides 85409-23-0			1 mg/m³ [5] [6]
Benzyl acetate 140-11-4		2.5 mg/kg bw/day [4] [6]	9 mg/m³ [4] [6]
Cineole 470-82-6		2 mg/kg bw/day [4] [6]	7.05 mg/m³ [4] [6]
Pentyl salicylate 2050-08-0		0.9 mg/kg bw/day [4] [6]	3.17 mg/m³ [4] [6]
Methyl salicylate 119-36-8		6 mg/kg bw/day [4] [6]	17.5 mg/m³ [4] [6] 285 mg/m³ [4] [7]
6-Octenal, 3,7-dimethyl- 106-23-0		1.7 mg/kg bw/day [4] [6] 140 µg/cm2 [5] [6]	9 mg/m³ [4] [6]
Geraniol 106-24-1		12.5 mg/kg bw/day [4] [6] 11800 µg/cm2 [5] [6]	161.6 mg/m³ [4] [6]
Citronellol 106-22-9		327.4 mg/kg bw/day [4] [6] 2950 µg/cm2 [5] [7]	161.6 mg/m³ [4] [6] 10 mg/m³ [5] [6] 10 mg/m³ [5] [7]
Isopropyl alcohol 67-63-0		888 mg/kg bw/day [4] [6]	500 mg/m³ [4] [6]
Sodium hydroxide 1310-73-2			1 mg/m³ [5] [6]
Methyl Benzoate 93-58-3		11 mg/kg bw/day [4] [6]	39.3 mg/m³ [4] [6]
Acid Leather Yellow T 1934-21-0		52.82 mg/kg bw/day [4] [6]	372.52 mg/m³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
Coumarin 91-64-5		0.79 mg/kg bw/day [4] [6]	6.78 mg/m³ [4] [6]
.alpha.-Pinene 80-56-8		0.542 mg/kg bw/day [4] [6]	3.8 mg/m³ [4] [6]
Geranyl acetate 105-87-3		35.5 mg/kg bw/day [4] [6]	62.59 mg/m³ [4] [6]
Eugenol 97-53-0		6 mg/kg bw/day [4] [6]	21.2 mg/m³ [4] [6]
1,3-Benzodioxole-5-carboxaldehyde 120-57-0		2.5 mg/kg bw/day [4] [6]	17.6 mg/m³ [4] [6]
Citral 5392-40-5		1.7 mg/kg bw/day [4] [6] 140 µg/cm2 [5] [6]	9 mg/m³ [4] [6]
Benzyl benzoate 120-51-4		2.6 mg/kg bw/day [4] [6]	5.1 mg/m³ [4] [6] 102 mg/m³ [4] [7]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Formaldehyde 50-00-0	4.1 mg/kg bw/day [4] [6]	12 µg/cm2 [5] [6]	3.2 mg/m³ [4] [6] 0.1 mg/m³ [5] [6]
Methanol 67-56-1	4 mg/kg bw/day [4] [6] 4 mg/kg bw/day [4] [7]	4 mg/kg bw/day [4] [6] 4 mg/kg bw/day [4] [7]	26 mg/m³ [4] [6] 26 mg/m³ [4] [7] 26 mg/m³ [5] [6] 26 mg/m³ [5] [7]
Propylene Glycol 57-55-6			50 mg/m³ [4] [6] 10 mg/m³ [5] [6]
C9-11 Alcohol ethoxylate 68439-46-3	25 mg/kg bw/day [4] [6]		87 mg/m³ [4] [6]
Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) 139-89-9	12 mg/kg bw/day [4] [6]		22 mg/m³ [4] [6] 2.5 mg/m³ [5] [6]
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides 85409-23-0			1 mg/m³ [5] [6]
Benzyl acetate 140-11-4	1.3 mg/kg bw/day [4] [6]		2.2 mg/m³ [4] [6]
Cineole 470-82-6	600 mg/kg bw/day [4] [6]		1.74 mg/m³ [4] [6]
Pentyl salicylate 2050-08-0	0.45 mg/kg bw/day [4] [6]		0.78 mg/m³ [4] [6]
Methyl salicylate 119-36-8	1 mg/kg bw/day [4] [6] 5 mg/kg bw/day [4] [7]		4 mg/m³ [4] [6] 213 mg/m³ [4] [7]
6-Octenal, 3,7-dimethyl- 106-23-0	0.6 mg/kg bw/day [4] [6]	140 µg/cm2 [5] [6]	2.7 mg/m³ [4] [6]
Geraniol 106-24-1	13.75 mg/kg bw/day [4] [6]	11800 µg/cm2 [5] [6]	47.8 mg/m³ [4] [6]
Citronellol 106-22-9	13.8 mg/kg bw/day [4] [6]	2950 µg/cm2 [5] [7]	47.8 mg/m³ [4] [6] 10 mg/m³ [5] [6] 10 mg/m³ [5] [7]
Isopropyl alcohol 67-63-0	26 mg/kg bw/day [4] [6]		89 mg/m³ [4] [6]
Sodium hydroxide			1 mg/m³ [5] [6]

Chemical name	Oral	Dermal	Inhalation
1310-73-2			
Methyl Benzoate 93-58-3	5.57 mg/kg bw/day [4] [6]		9.68 mg/m³ [4] [6]
Acid Leather Yellow T 1934-21-0	26.41 mg/kg bw/day [4] [6]		91.86 mg/m³ [4] [6]
Coumarin 91-64-5	0.39 mg/kg bw/day [4] [6]		1.69 mg/m³ [4] [6]
.alpha.-Pinene 80-56-8	0.225 mg/kg bw/day [4] [6]		0.674 mg/m³ [4] [6]
Geranyl acetate 105-87-3	8.9 mg/kg bw/day [4] [6]		15.4 mg/m³ [4] [6]
Eugenol 97-53-0	3 mg/kg bw/day [4] [6]		5.22 mg/m³ [4] [6]
1,3-Benzodioxole-5-carboxaldehyde 120-57-0	1.25 mg/kg bw/day [4] [6]		4.3 mg/m³ [4] [6]
Citral 5392-40-5	0.6 mg/kg bw/day [4] [6]	140 µg/cm2 [5] [6]	2.7 mg/m³ [4] [6]
Benzyl benzoate 120-51-4	0.4 mg/kg bw/day [4] [6] 78 mg/kg bw/day [4] [7]		1.25 mg/m³ [4] [6] 25 mg/m³ [4] [7]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Formaldehyde 50-00-0	0.44 mg/L	4.44 mg/L	0.44 mg/L		
Methanol 67-56-1	20.8 mg/L	1540 mg/L	2.08 mg/L		
Propylene Glycol 57-55-6	260 mg/L	183 mg/L	26 mg/L		
C9-11 Alcohol ethoxylate 68439-46-3	0.10379 mg/L	0.014 mg/L	0.10379 mg/L		
Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) 139-89-9	0.256 mg/L	1 mg/L	25.6 µg/L	0.1 mg/L	
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides 85409-23-0	0.415 µg/L	0.154 µg/L	0.0415 µg/L	0.154 µg/L	
Benzyl acetate 140-11-4	0.0184 mg/L	0.04 mg/L	0.00184 mg/L		
Cinnamaldehyde 104-55-2	3.21 µg/L 1.004 mg/L	32.1 µg/L 1.004 mg/L	0.321 µg/L 0.1004 mg/L	3.21 µg/L	
Cineole 470-82-6	57 µg/L	0.57 mg/L	5.7 µg/L		
Pentyl salicylate 2050-08-0	0.77 µg/L	7.7 µg/L	0.077 µg/L		
Methyl salicylate 119-36-8	20 µg/L	200 µg/L	2 µg/L		
6-Octenal, 3,7-dimethyl-	0.00868 mg/L	0.0868 mg/L	0.00087 mg/L		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
106-23-0					
Geraniol 106-24-1	0.0108 mg/L	0.108 mg/L	0.00108 mg/L		
Citronellol 106-22-9	0.0024 mg/L	0.024 mg/L	0.00024 mg/L		
Isopropyl alcohol 67-63-0	140.9 mg/L	140.9 mg/L	140.9 mg/L		
Methyl Benzoate 93-58-3	0.023 mg/L	0.23 mg/L	0.0023 mg/L		
Acid Leather Yellow T 1934-21-0	0.12 mg/L	1.2 mg/L	0.012 mg/L		
Coumarin 91-64-5	19 µg/L	14.2 µg/L	1.9 µg/L		
.alpha.-Pinene 80-56-8	0.606 µg/L	3.03 µg/L	0.0606 µg/L	0.303 µg/L	
Geranyl acetate 105-87-3	3.72 µg/L	37.2 µg/L	0.372 µg/L		
Eugenol 97-53-0	1.13 µg/L	11.3 µg/L	0.113 µg/L		
1,3-Benzodioxole-5-carboxaldehyde 120-57-0	2.5 µg/L	25 µg/L	0.25 µg/L		
Citral 5392-40-5	0.00678 mg/L	0.0678 mg/L	0.000678 mg/L		
Benzyl benzoate 120-51-4	0.0168 mg/L		0.00168 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Formaldehyde 50-00-0	2.3 mg/kg sediment dw	2.3 mg/kg sediment dw	0.19 mg/L	0.2 mg/kg soil dw	
Methanol 67-56-1	77 mg/kg sediment dw	7.7 mg/kg sediment dw	100 mg/L	100 mg/kg soil dw	
Propylene Glycol 57-55-6	572 mg/kg sediment dw	57.2 mg/kg sediment dw	20000 mg/L	50 mg/kg soil dw	
C9-11 Alcohol ethoxylate 68439-46-3	13.7 mg/kg sediment dw	13.7 mg/kg sediment dw	1.4 mg/L	1 mg/kg soil dw	
Trisodium 2-(carboxylatomethyl(2-hydroxyethyl)amino)ethyliminodi(acetate) 139-89-9	0.922 mg/kg sediment dw	92.2 µg/kg sediment dw	5.89 mg/L	0.184 mg/kg soil dw	
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides 85409-23-0	6.81 mg/kg sediment dw	0.681 mg/kg sediment dw	210 µg/L	1.36 mg/kg soil dw	
Benzyl acetate 140-11-4	0.526 mg/kg sediment dw	0.0526 mg/kg sediment dw	8.55 mg/L	0.09443 mg/kg soil dw	
Cinnamaldehyde 104-55-2	40.7 µg/kg sediment dw 159.18514 mg/kg sediment dw	4.07 µg/kg sediment dw 159.18514 mg/kg sediment dw	13.119 mg/L	6.26 µg/kg soil dw 56.084725 mg/kg soil dw	0.000333333 mg/kg food
Cineole 470-82-6	1.425 mg/kg sediment dw	0.1425 mg/kg sediment dw	10 mg/L	0.25 mg/kg soil dw	40 mg/kg food
Pentyl salicylate	0.389 mg/kg	0.0389 mg/kg	10 mg/L	1.786 mg/kg soil dw	80 mg/kg food

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
2050-08-0	sediment dw	sediment dw			
Methyl salicylate 119-36-8	0.52 mg/kg sediment dw	0.052 mg/kg sediment dw	140 mg/L	0.35 mg/kg soil dw	
6-Octenal, 3,7-dimethyl- 106-23-0	0.159 mg/kg sediment dw	0.0159 mg/kg sediment dw	4 mg/L	0.0267 mg/kg soil dw	
Geraniol 106-24-1	0.115 mg/kg sediment dw	0.0115 mg/kg sediment dw	0.7 mg/L	0.0167 mg/kg soil dw	
Citronellol 106-22-9	0.0256 mg/kg sediment dw	0.00256 mg/kg sediment dw	580 mg/L	0.00371 mg/kg soil dw	
Isopropyl alcohol 67-63-0	552 mg/kg sediment dw	552 mg/kg sediment dw	2251 mg/L	28 mg/kg soil dw	160 mg/kg food
Methyl Benzoate 93-58-3	0.492 mg/kg sediment dw	0.0492 mg/kg sediment dw	8.15 mg/L	0.085 mg/kg soil dw	
Acid Leather Yellow T 1934-21-0	0.46992 mg/kg sediment dw	0.046992 mg/kg sediment dw	10 mg/L	0.02353 mg/kg soil dw	
Coumarin 91-64-5	0.15 mg/kg sediment dw	0.015 mg/kg sediment dw	6.4 mg/L	0.018 mg/kg soil dw	30.7 mg/kg food
.alpha.-Pinene 80-56-8	157 µg/kg sediment dw	15.7 µg/kg sediment dw	0.2 mg/L	31.7 µg/kg soil dw	8.76 mg/kg food
Geranyl acetate 105-87-3	0.442 mg/kg sediment dw	0.0442 mg/kg sediment dw	8 mg/L	0.0859 mg/kg soil dw	
Eugenol 97-53-0	0.081 mg/kg sediment dw	0.0081 mg/kg sediment dw		0.0155 mg/kg soil dw	
1,3-Benzodioxole-5-carboxaldehyde 120-57-0	11.9 µg/kg sediment dw	1.2 µg/kg sediment dw	10 mg/L	0.84 µg/kg soil dw	
Citral 5392-40-5	0.125 mg/kg sediment dw	0.0125 mg/kg sediment dw	1.6 mg/L	0.0209 mg/kg soil dw	
Benzyl benzoate 120-51-4	10.66 mg/kg sediment dw	1.07 mg/kg sediment dw	100 mg/L	2.12 mg/kg soil dw	

8.2. Exposure controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Hand protection

Wear suitable gloves. Impervious gloves.

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Golden yellow Liquid
Physical state	Liquid
Colour	Gold yellow
Odour	Pungent
Odour threshold	No information available

Property	**Values**	**Remarks • Method**
Melting point / freezing point		No data available
Initial boiling point and boiling range	92 - 94 °C	@ 760 mmHg
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits	73%	
Lower flammability or explosive limits	7%	
Flash point	60 °C	CC (closed cup)
Autoignition temperature		No data available
Decomposition temperature		No data available
pH	6.0 - 7.5	Concentrated solution
pH (as aqueous solution)		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Water solubility	Soluble in water	
Solubility(ies)		No data available
Partition coefficient		No data available
Vapour pressure		No data available
Relative density	1.04 - 1.05	@20°C
Bulk density		No data available
Liquid Density		No data available
Vapour density	> 1	No data available
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidizing.

9.2. Other information

VOC	97% Volatile

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Excessive heat.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation. Toxic in contact with skin.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	311.40 mg/kg
ATEmix (dermal)	934.30 mg/kg
ATEmix (inhalation-gas)	3,045.30 ppm
ATEmix (inhalation-vapour)	351.10 mg/l
ATEmix (inhalation-dust/mist)	1.56 mg/l

Unknown acute toxicity

11.97546 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Formaldehyde	= 100 mg/kg (Rat)	> 2000 mg/kg (Rat)	< 463 ppm (Rat) 4 h
Methanol	= 100 mg/kg	= 300 mg/kg	= 22500 ppm (Rat) 8 h
Propylene Glycol	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	> 317 042 mg/m³ (Rabbit) 2h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. Suspected of causing genetic defects.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	United Kingdom
Formaldehyde	Muta. 2

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	United Kingdom
Formaldehyde	Carc. 1B

Reproductive toxicity No information available.

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if swallowed. Causes damage to organs in contact with skin. Causes damage to organs if inhaled. May cause respiratory irritation.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity Contains 0.0998 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Formaldehyde	EC50 3.48 mg/L (72h, Desmodesmus subspicatus)	LC50: 6.7mg/L (96h, Morone saxatilis)	-	LC50: 5.8 mg/L (48h, Daphnia magna)
Methanol	-	LC50: =28200mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas) LC50: 19500 - 20700mg/L	-	-

		(96h, Oncorhynchus mykiss) LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss) LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus)		
Propylene Glycol	EC50: 24200 mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 40613 mg/L (96h, Oncorhynchus mykiss)	-	LC50: 18340 mg/L (48h, Ceriodaphnia dubia)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Formaldehyde	0.35
Methanol	-0.77
Propylene Glycol	-1.07

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Formaldehyde	The substance is not PBT / vPvB
Methanol	The substance is not PBT / vPvB
Propylene Glycol	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14: Transport information

IMDG

14.1 UN number or ID number UN1992
14.2 UN proper shipping name FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol)
14.3 Transport hazard class(es) 3
Subsidiary hazard class 6.1
14.4 Packing group III
Description UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S.(Methanol), 3 (6.1), III, (60°C C.C.)
14.5 Environmental hazards No

14.6 Special Precautions for Users
Special Provisions 223, 274
EmS-No F-E, S-D
14.7 Maritime transport in bulk according to IMO instruments No information available

RID
14.1 UN number UN1992
14.2 UN proper shipping name FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol)
14.3 Transport hazard class(es) 3
Subsidiary hazard class 6.1
14.4 Packing group III
Description UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S.(Methanol), 3 (6.1), III
14.5 Environmental hazards No
14.6 Special Precautions for Users
Special Provisions 274
Classification code FT1

ADR
14.1 UN number or ID number UN1992
14.2 UN proper shipping name FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol)
14.3 Transport hazard class(es) 3
Subsidiary class 6.1
14.4 Packing group III
Description UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S.(Methanol), 3 (6.1), III
14.5 Environmental hazards No
14.6 Special Precautions for Users
Special Provisions 274
Classification code FT1
Tunnel restriction code (D/E)

IATA
14.1 UN number or ID number UN1992
14.2 UN proper shipping name Flammable liquid, toxic, n.o.s. (Methanol)
14.3 Transport hazard class(es) 3
Subsidiary hazard class 6.1
14.4 Packing group III
Description UN1992, Flammable liquid, toxic, n.o.s. (Methanol), 3 (6.1), III
14.5 Environmental hazards No
14.6 Special Precautions for Users
Special Provisions A3
ERG Code 3P
Note: None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Authorisations and/or restrictions on use:
This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Formaldehyde - 50-00-0	Use restricted. See item 28. Use restricted. See item 72. Restricted Carcinogen 1B	-
Methanol - 67-56-1	Use restricted. See item 69.	-

Persistent Organic Pollutants
Not applicable

Export Notification requirements
Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)
H3 - STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

Named dangerous substances per COMAH Regulations 2015 (as amended)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Formaldehyde - 50-00-0	5	50
Methanol - 67-56-1	500	5000

The Ozone-Depleting Substances Regulations 2015
Not applicable

The Biocidal Products Regulations 2001 (as amended)

Chemical name	The Biocidal Products Regulations 2001 (as amended)
Formaldehyde - 50-00-0	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 3: Veterinary hygiene Product-type 22: Embalming and taxidermist fluids

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)
Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Chemical name	Poisons and Explosive Precursors
Formaldehyde	Poison, Reportable 5 % w/w

International Inventories
Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
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
H319 - Causes serious eye irritation
H331 - Toxic if inhaled
H336 - May cause drowsiness or dizziness
H341 - Suspected of causing genetic defects
H350 - May cause cancer
H370 - Causes damage to organs

Legend
SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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Revision Note Initial Release

This material safety data sheet complies with the requirements of UK REACH

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer
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End of Safety Data Sheet