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

Supercedes date 06-Dec-2022 **Revision date** 17-Apr-2025 **Revision Number** 3

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

1.1. Product identifier

Product Name Jaundofiant Basic

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

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

1.4. Emergency telephone number

Emergency telephone +44 (0)1256 893883 (Mon- Fri 9:00 am - 4:30 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)

Acute toxicity - Inhalation (Gases)	Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists)	Category 2 - (H330)
Skin irritation	Category 2 - (H315)
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 2 Category 3 - (H371, H335)
Category 3 Respiratory irritation	

2.2. Label elements

Contains Formaldehyde; Methanol; Sodium Hydroxymethanesulphinate

Signal word
Danger

Hazard statements
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.
H330 - Fatal if inhaled.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H341 - Suspected of causing genetic defects.
H350 - May cause cancer.
H371 - May cause damage to organs.

Precautionary statements
P201 - Obtain special instructions before use.
P260 - Do not breathe dust, fume, gas, mist, vapors and spray.
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 - Immediately call a POISON CENTER or doctor.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P320 - Specific treatment is urgent (see supplemental first aid instructions on this label).
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.

Unknown acute toxicity
1.053 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
1.053 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
10.4895 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
2.673 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

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. Restricted to professional users.

2.3. Other hazards

Other hazards Corrosive to the respiratory tract.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No. (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)	Notes
Formaldehyde 50-00-0	10 - < 25	200-001-8 (605-001-00-5)	-	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Acute Tox. 2 (H330) 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%	-	-	B,D
Methanol 67-56-1	5 - < 10	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%	-	-	-
Sodium Hydroxymethanesulphinate 149-44-0	1 - < 5	205-739-4	-	-	-	-	-	-
Alcohols, C9-11, ethoxylated 68439-46-3	< 1	-	-	-	-	-	-	-
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one 14901-07-6	<0.025	238-969-9	-	-	-	-	-	-
Benzyl acetate 140-11-4	<0.025	205-399-7	-	-	-	-	-	-
Linalool 78-70-6	<0.025	201-134-4 (603-235-00-2)	-	Skin Sens. 1B (H317)	-	-	-	-
Piperonal 120-57-0	<0.025	204-409-7	-	-	-	-	-	-
D-Limonene 5989-27-5	<0.025	227-813-5 (601-096-00-2)	-	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1	-

Note B - Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: ‘nitric acid … %’. In this case the supplier must state the

percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
Note D - Certain substances which are susceptible to spontaneous polymerization or decomposition are generally placed on the market in a stabilized form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilized form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words “non-stabilized”.

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

Acute Toxicity Estimate
In the absence of LD50/LC50 data, the conversion value (converted acute toxicity point estimate) may be indicated here; please note that these values do not represent test results

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Formaldehyde 50-00-0	100	2002	No data available	No data available	470.7562
Methanol 67-56-1	6200	15840	No data available	41.6976	No data available
Sodium Hydroxymethanesulphinate 149-44-0	5005	2000	No data available	No data available	No data available
Alcohols, C9-11, ethoxylated 68439-46-3	1400	No data available	No data available	No data available	No data available
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one 14901-07-6	4590	No data available	No data available	No data available	No data available
Benzyl acetate 140-11-4	2490	5005	No data available	No data available	No data available
Linalool 78-70-6	2790	5610	No data available	No data available	No data available
Piperonal 120-57-0	2700	5005	No data available	No data available	No data available
D-Limonene 5989-27-5	5200 4400	5005	No data available	No data available	No data available

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

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. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. 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. If symptoms persist, call a doctor. Remove contact lenses, if present and easy to do. Continue

	rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. If symptoms persist, call a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor or poison control centre immediately.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe vapour or mist. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

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

Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
Effects of Exposure	May cause cancer. Mutagenic effects. May cause damage to organs if swallowed. May cause damage to organs in contact with skin. May cause damage to organs if inhaled. May cause damage to organs.

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	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	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	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Do not breathe vapour or mist. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.
Other information	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 Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up 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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not breathe vapour or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not breathe vapour or mist. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

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/m³; STEL: 2 ppm; STEL: 2.5 mg/m³;
Methanol 67-56-1	TWA: 200 ppm; TWA: 266 mg/m³;

	STEL: 250 ppm; STEL: 333 mg/m³; pSk

Note See section 16 for terms and abbreviations

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]
Alcohols, C9-11, ethoxylated 68439-46-3		2080 mg/kg bw/day [4] [6]	294 mg/m³ [4] [6]
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl) -but-3-ene-2-one 14901-07-6		2.191252632 mg/kg bw/day [4] [6]	2.498028 mg/m³ [4] [6]
Benzyl acetate 140-11-4		2.5 mg/kg bw/day [4] [6]	9 mg/m³ [4] [6]
Linalool 78-70-6		3.5 mg/kg bw/day [4] [6] 3 mg/cm2 [5] [6] 3 mg/cm2 [5] [7]	24.58 mg/m³ [4] [6]
Piperonal 120-57-0		0.75 mg/kg bw/day [4] [6]	5.29 mg/m³ [4] [6]
D-Limonene 5989-27-5		9.5 mg/kg bw/day [4] [6]	66.7 mg/m³ [4] [6]
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hex amethylindeno[5,6-c]pyran 1222-05-5		36.7 mg/kg bw/day [4] [6]	13.5 mg/m³ [4] [6]

Notes

[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]
Alcohols, C9-11, ethoxylated 68439-46-3	25 mg/kg bw/day [4] [6]		87 mg/m³ [4] [6]
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl) -but-3-ene-2-one 14901-07-6	4.382505263 mg/kg bw/day [4] [6]		0.6214 mg/m³ [4] [6]
Benzyl acetate	1.3 mg/kg bw/day [4] [6]		2.2 mg/m³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
140-11-4			
Linalool 78-70-6	2.49 mg/kg bw/day [4] [6]	1.5 mg/cm2 [5] [6] 1.5 mg/cm2 [5] [7]	4.33 mg/m³ [4] [6]
Piperonal 120-57-0	0.375 mg/kg bw/day [4] [6]		1.3 mg/m³ [4] [6]
D-Limonene 5989-27-5	4.8 mg/kg bw/day [4] [6]		16.6 mg/m³ [4] [6]
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran 1222-05-5	2.3 mg/kg bw/day [4] [6]		4 mg/m³ [4] [6]

Notes

[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
Sodium Hydroxymethanesulphinate 149-44-0	0.56 mg/L	500 µg/L	56 µg/L	50 µg/L	
Alcohols, C9-11, ethoxylated 68439-46-3	0.10379 mg/L	0.014 mg/L	0.10379 mg/L		
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one 14901-07-6	0.00146 mg/L	0.0146 mg/L	0.000146 mg/L		
Benzyl acetate 140-11-4	0.0184 mg/L	0.04 mg/L	0.00184 mg/L		
Linalool 78-70-6	7.8 mg/kg food 0.2 mg/L	2 mg/L	7.8 mg/kg food 0.02 mg/L		
Piperonal 120-57-0	2.5 µg/L	25 µg/L	0.25 µg/L		
D-Limonene 5989-27-5	14 µg/L 133 mg/kg food		1.4 µg/L 133 mg/kg food		
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran 1222-05-5	6.8 µg/L 20.4 mg/kg food		20.4 mg/kg food 0.44 µg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Sodium Hydroxymethanesulphinate 149-44-0	3.79 mg/kg sediment dw	0.38 mg/kg sediment dw	10 mg/L	0.43 mg/kg soil dw	
Alcohols, C9-11, ethoxylated 68439-46-3	13.7 mg/kg sediment dw	13.7 mg/kg sediment dw	1.4 mg/L	1 mg/kg soil dw	
4-(2,6,6-Trimethylcyclohex	22.45122592 mg/kg	22.45122592 mg/kg	0.0428 mg/L	10.46619104 mg/kg	

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
-1-ene-1-yl)-but-3-ene-2-one 14901-07-6	sediment dw	sediment dw		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	
Linalool 78-70-6	2.22 mg/kg sediment dw	0.222 mg/kg sediment dw	10 mg/L	0.327 mg/kg soil dw	
Piperonal 120-57-0	11.95 µg/kg sediment dw	1.2 µg/kg sediment dw	10 mg/L	0.84 µg/kg soil dw	
D-Limonene 5989-27-5	3.85 mg/kg sediment dw	0.385 mg/kg sediment dw	1.8 mg/L	0.763 mg/kg soil dw	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran 1222-05-5	2 mg/kg sediment dw	0.394 mg/kg sediment dw	1 mg/L	1.5 mg/kg soil dw	

8.2. Exposure controls

Engineering controls
Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face protection
Eye protection must conform to standard EN 166. Wear safety glasses with side shields (or goggles).

Hand protection
Gloves must conform to standard EN 374. Wear suitable gloves. Impervious gloves.

Skin and body protection
Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Clear liquid
Physical state Liquid
Colour Colourless
Odour Pungent
Odour threshold No information available

Property	Values	Remarks • Method
pH	9 - 10	Concentrated solution
pH (as aqueous solution)		No data available
Melting point / freezing point		No data available
Initial boiling point and boiling range	91 - 93 °C	@ 760 mmHg
Flash point	62 °C	CC (closed cup)
Evaporation rate	> 1	Butyl acetate = 1
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits	73%	
Lower flammability or explosive limits	7%	

Vapour pressure		No data available
Relative vapour density	> 1	
Relative density	1.05 - 1.06	@20°C
Bulk density		No data available
Liquid Density		No data available
Solubility(ies)		No data available
Water solubility	Soluble in water	
Partition coefficient		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
SADT (°C)		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

9.2. Other information

Molecular weight	No information available
VOC content	No information available
Softening point	No information available

Information with regards to physical hazard classes

Explosives	Sensitivity to shock
Explosive properties	Not an explosive.
Oxidising properties	Not applicable.

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	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid 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. Information on toxicological effects

Information on likely routes of exposure

Product Information

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

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.

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

Acute toxicity Fatal if inhaled. Harmful if swallowed. Harmful by skin contact. Harmful by inhalation.

Numerical measures of toxicity
The following ATE values have been calculated for the mixture

ATEmix (oral)	375.80 mg/kg
ATEmix (dermal)	1,118.60 mg/kg
ATEmix (inhalation-gas)	3,340.10 ppm
ATEmix (inhalation-vapour)	533.50 mg/l
ATEmix (inhalation-dust/mist)	0.256 mg/l

Unknown acute toxicity
1.053 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
1.053 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
10.4895 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
2.673 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Formaldehyde	= 100 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 578 mg/m³ (Rat) 4 h
Methanol	= 100 mg/kg	= 300 mg/kg	= 22500 ppm (Rat) 8 h
Sodium Hydroxymethanesulphinate	> 5000 mg/kg (Rat)	>= 2000 mg/kg (Rat)	-
Alcohols, C9-11, ethoxylated	= 1400 mg/kg (Rat)	-	-
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	= 4590 mg/kg (Rat)	>2000 mg/kg (Mouse)	-
Benzyl acetate	= 2490 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Linalool	= 2790 mg/kg (Rat)	= 5610 mg/kg (Rabbit)	-
Piperonal	= 2700 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
D-Limonene	= 5200 mg/kg (Rat) = 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-

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 Based on available data, the classification criteria are not met.

STOT - single exposure May cause damage to organs if swallowed. May cause damage to organs in contact with skin. May cause damage to organs if inhaled. May cause respiratory irritation.

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.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

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)		
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	-	LC50 2.572 mg/L (96h, Oryzias latipes QSAR)	-	EC50 1.6 mg/L (48h, Daphnia magna QSAR)
Benzyl acetate	EC50: 92 mg/L (96h, Desmodesmus subspicatus)	LC50: 4 mg/L (96h, Oryzias latipes)	-	-
Linalool	EC50: =88.3mg/L (96h, Desmodesmus subspicatus)	LC50: =27.8mg/L (96h, Oncorhynchus mykiss)	-	EC50: =20mg/L (48h, Daphnia magna)
Piperonal	EC50 6.8 (72h, Pseudokirchneriella subcapitata)	LC50: =2.8mg/L (96h, Cyprinus carpio)	-	EC50 52 mg/L (48h, Daphnia magna)
D-Limonene	-	LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas) LC50: =35mg/L (96h, Oncorhynchus mykiss)	-	-

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
Sodium Hydroxymethanesulphinate	0.3
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	1.903
Benzyl acetate	1.96
Linalool	2.9
Piperonal	1.2
D-Limonene	4.38

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	Not PBT/vPvB
Methanol	Not PBT/vPvB
Sodium Hydroxymethanesulphinate	Not PBT/vPvB
Alcohols, C9-11, ethoxylated	Not PBT/vPvB
4-(2,6,6-Trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Not PBT/vPvB
Benzyl acetate	Not PBT/vPvB

Linalool	Not PBT/vPvB
Piperonal	Not PBT/vPvB
D-Limonene	Not PBT/vPvB

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number UN3334
14.2 UN proper shipping name Aviation regulated liquid, n.o.s. (Formaldehyde, Methanol)
IATA Technical Name Formaldehyde, Methanol
14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Environmental hazards No
14.6 Special precautions for user
Special Provisions A27
ERG Code 9A
Description UN3334, Aviation regulated liquid, n.o.s. (Formaldehyde, Methanol), 9, III

IMDG

14.1 UN number or ID number UN3334
14.2 UN proper shipping name Aviation regulated liquid, n.o.s. (Formaldehyde, Methanol)
Technical Name Formaldehyde, Methanol
14.3 Transport hazard class(es) 9
14.4 Packing group Not regulated
14.5 Environmental hazards No
Marine pollutant indicator NP
14.6 Special precautions for user
Special Provisions 960
Description UN3334, Aviation regulated liquid, n.o.s. (Formaldehyde, Methanol), 9
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number UN3334
14.2 UN proper shipping name Aviation regulated liquid, n.o.s.
14.3 Transport hazard class(es) 9
14.4 Packing group Not applicable
Description UN3334, Aviation regulated liquid, n.o.s., 9
14.5 Environmental hazards No
14.6 Special precautions for user
Special Provisions None
Classification code M11

ADR

14.1 UN number or ID number	UN3334
14.2 UN proper shipping name	Aviation regulated liquid, n.o.s.
14.3 Transport hazard class(es)	9
14.4 Packing group	Not applicable
Description	UN3334, Aviation regulated liquid, n.o.s., 9
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
Classification code	M11

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 UK REACH Annex XVII	Substance subject to authorization per UK 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 (SI 2015/483 as amended)
H2 - ACUTE TOXIC
Named dangerous substances per COMAH (SI 2015/483 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 and Explosive Precursors
This product is subject to Poisons Act 1972. Suspicious transactions and significant disappearances and thefts are to be reported.

Chemical name	Concentration limit for regulated explosives precursors	Reportable explosives precursors	Regulated Poisons	Reportable Poisons
Formaldehyde 50-00-0	-	-	-	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 any hazard and/or precautionary statements referred to under Sections 2-15
H225 - Highly flammable liquid and vapour
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H330 - Fatal if inhaled
H331 - Toxic if inhaled
H341 - Suspected of causing genetic defects
H350 - May cause cancer
H370 - Causes damage to organs

P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable
P280 - Wear protective gloves, protective clothing, eye protection and face protection
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P312 - Call a POISON CENTER or doctor if you feel unwell
P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label)
P362 + P364 - Take off contaminated clothing and wash it before reuse
P261 - Avoid breathing dust, fume, gas, mist, vapors and spray
P271 - Use only outdoors or in a well-ventilated area
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P260 - Do not breathe dust, fume, gas, mist, vapors and spray
P284 - In case of inadequate ventilation wear respiratory protection
P310 - Immediately call a POISON CENTER or doctor
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P321 - Specific treatment (see supplemental first aid instructions on this label)
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor
P320 - Specific treatment is urgent (see supplemental first aid instructions on this label)

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EC Number	European Community number
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organisation
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organisation for Standardisation
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature

SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitiser
RS	Respiratory Sensitiser
S	Sensitiser
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

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	On basis of test data
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
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
U.S. 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)
U.S. 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)
Japan 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)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

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Revision Note	Change in the mixture classification Updated format

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)

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
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet