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 14-Dec-2022 **Revision Date** 14-Dec-2022 **Revision Number** 1

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

1.1. Product identifier

Product Name MazWell Surface Sanitiser Cherry Fragrance

Synonyms None

Pure substance/mixture Substance

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

Not classified

2.2. Label elements

Not classified

Hazard statements
Not classified.

Unknown aquatic toxicity Contains 0.12302 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

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)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	0.025 - < 0.05	270-325-2	-	-	-	-	-
Vantocil TG (PHMB20) 27083-27-8	0.01 - < 0.025	(616-207-00-X)	-	Acute Tox. 4 (H302) Acute Tox. 2 (H330) Eye Dam. 1 (H318) Skin Sens. 1B (H317) Carc. 2 (H351) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	10	10

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)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Wash skin with soap and water.

Ingestion Rinse mouth.

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

Symptoms No information available.

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

Note to doctors 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 No information available.

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 Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

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.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

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

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
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1		5.7 mg/kg bw/day [4] [6]	3.96 mg/m³ [4] [6]
Isopropyl alcohol 67-63-0		888 mg/kg bw/day [4] [6]	500 mg/m³ [4] [6]
Benzaldehyde 100-52-7		1.14 mg/kg bw/day [4] [6] 1 % in mixture (weight basis) [5] [7]	9.8 mg/m³ [4] [6] 9.8 mg/m³ [5] [6]
Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester 77-83-8		0.7 mg/kg bw/day [4] [6]	2.45 mg/m³ [4] [6]
Benzyl acetate 140-11-4		2.5 mg/kg bw/day [4] [6]	9 mg/m³ [4] [6]
Sodium hydroxide 1310-73-2			1 mg/m³ [5] [6]
Toluene 108-88-3		384 mg/kg bw/day [4] [6]	192 mg/m³ [4] [6] 384 mg/m³ [4] [7] 192 mg/m³ [5] [6] 384 mg/m³ [5] [7]
Lynalyl acetate (ex bois de rose, synthetic) 115-95-7		2.5 mg/kg bw/day [4] [6] 236.2 µg/cm2 [5] [6] 236.2 µg/cm2 [5] [7]	2.75 mg/m³ [4] [6]
3-Methylbut-2-en-1-yl acetate 1191-16-8		6.54 mg/kg bw/day [4] [6]	5.77 mg/m³ [4] [6]
2(3H)-Furanone, 5-heptyldihydro- 104-67-6		5.38 mg/kg bw/day [4] [6]	19 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]
Nerol 106-25-2		1.25 mg/kg bw/day [4] [6]	4.4 mg/m³ [4] [6]
.alpha.-Ionone 127-41-3		0.28 mg/kg bw/day [4] [6]	0.987 mg/m³ [4] [6]
BETA IONONE 14901-07-6		2.191252632 mg/kg bw/day [4] [6]	2.498028 mg/m³ [4] [6]
Eugenol 97-53-0		6 mg/kg bw/day [4] [6]	21.2 mg/m³ [4] [6]
Alcohols, C9-11, ethoxylated 68439-46-3		2080 mg/kg bw/day [4] [6]	294 mg/m³ [4] [6]

[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
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	3.4 mg/kg bw/day [4] [6]		1.64 mg/m³ [4] [6]
Isopropyl alcohol 67-63-0	26 mg/kg bw/day [4] [6]		89 mg/m³ [4] [6]
Benzaldehyde 100-52-7	0.67 mg/kg bw/day [4] [6]	1 % in mixture (weight basis) [5] [7]	4.9 mg/m³ [4] [6] 4.9 mg/m³ [5] [6]
Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester 77-83-8	0.35 mg/kg bw/day [4] [6]		0.61 mg/m³ [4] [6]
Benzyl acetate 140-11-4	1.3 mg/kg bw/day [4] [6]		2.2 mg/m³ [4] [6]
Sodium hydroxide 1310-73-2			1 mg/m³ [5] [6]
Toluene 108-88-3	8.13 mg/kg bw/day [4] [6]		56.5 mg/m³ [4] [6] 226 mg/m³ [4] [7] 56.5 mg/m³ [5] [6] 226 mg/m³ [5] [7]
Lynalyl acetate (ex bois de rose, synthetic) 115-95-7	0.2 mg/kg bw/day [4] [6]	236.2 µg/cm2 [5] [6] 236.2 µg/cm2 [5] [7]	0.68 mg/m³ [4] [6]
3-Methylbut-2-en-1-yl acetate 1191-16-8	3.27 mg/kg bw/day [4] [6]		1.42 mg/m³ [4] [6]
2(3H)-Furanone, 5-heptyldihydro- 104-67-6	2.7 mg/kg bw/day [4] [6]		4.68 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]
Nerol 106-25-2	0.62 mg/kg bw/day [4] [6]		1.09 mg/m³ [4] [6]
.alpha.-Ionone 127-41-3	0.1 mg/kg bw/day [4] [6]		0.174 mg/m³ [4] [6]
BETA IONONE 14901-07-6	4.382505263 mg/kg bw/day [4] [6]		0.6214 mg/m³ [4] [6]
Eugenol 97-53-0	3 mg/kg bw/day [4] [6]		5.22 mg/m³ [4] [6]
Alcohols, C9-11, ethoxylated 68439-46-3	25 mg/kg bw/day [4] [6]		87 mg/m³ [4] [6]

[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
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	0.0009 mg/L	0.00016 mg/L	0.00096 mg/L		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
68424-85-1					
Didecyldimethylammonium chloride 7173-51-5	1.1 µg/L	0.21 µg/L	0.11 µg/L	0.021 µg/L	
Isopropyl alcohol 67-63-0	140.9 mg/L	140.9 mg/L	140.9 mg/L		
Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester 77-83-8	0.0084 mg/L	0.084 mg/L	8.4 µg/L		
1-Butanol, 3-methyl-, 1-acetate 123-92-2	0.011 mg/L	0.11 mg/L	0.0011 mg/L		
n-Butyl acetate 123-86-4	0.18 mg/L	0.36 mg/L	0.018 mg/L		
Benzyl acetate 140-11-4	0.0184 mg/L	0.04 mg/L	0.00184 mg/L		
Toluene 108-88-3	0.68 mg/L	0.68 mg/L	0.68 mg/L		
Lynalyl acetate (ex bois de rose, synthetic) 115-95-7	0.011 mg/L	0.11 mg/L	0.0011 mg/L		
3-Methylbut-2-en-1-yl acetate 1191-16-8	0.0235 mg/L	0.235 mg/L	0.00235 mg/L		
2(3H)-Furanone, 5-heptyldihydro- 104-67-6	84 µg/L	58.5 µg/L	8.4 µg/L	5.85 µg/L	
Geraniol 106-24-1	0.0108 mg/L	0.108 mg/L	0.00108 mg/L		
Nerol 106-25-2	7.45 µg/L	74.5 µg/L	0.745 µg/L		
3-Methylbutyl butyrate 106-27-4	3.19 µg/L	31.9 µg/L	0.319 µg/L		
.alpha.-Ionone 127-41-3	3.4 µg/L	13.8 µg/L	0.34 µg/L	1.38 µg/L	
BETA IONONE 14901-07-6	0.00146 mg/L	0.0146 mg/L	0.000146 mg/L		
Eugenol 97-53-0	1.13 µg/L	11.3 µg/L	0.113 µg/L		
Alcohols, C9-11, ethoxylated 68439-46-3	0.10379 mg/L	0.014 mg/L	0.10379 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1	12.27 mg/kg sediment dw	13.09 mg/kg sediment dw	0.4 mg/L	7 mg/kg soil dw	
Didecyldimethylammonium chloride 7173-51-5	61.86 mg/kg sediment dw	6.186 mg/kg sediment dw	0.14 mg/L	1.4 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

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Oxiranecarboxylic acid, 3-methyl-3-phenyl-, ethyl ester 77-83-8	0.214 mg/kg sediment dw	0.0214 mg/kg sediment dw	10 mg/L	0.0378 mg/kg soil dw	23.3 mg/kg food
1-Butanol, 3-methyl-, 1-acetate 123-92-2	0.335 mg/kg sediment dw	0.0335 mg/kg sediment dw	30 mg/L	0.06 mg/kg soil dw	
n-Butyl acetate 123-86-4	0.981 mg/kg sediment dw	0.0981 mg/kg sediment dw	35.6 mg/L	0.0903 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	
Toluene 108-88-3	16.39 mg/kg sediment dw	16.39 mg/kg sediment dw	13.61 mg/L	2.89 mg/kg soil dw	
Lynalyl acetate (ex bois de rose, synthetic) 115-95-7	0.609 mg/kg sediment dw	0.0609 mg/kg sediment dw	1 mg/L	0.115 mg/kg soil dw	
3-Methylbut-2-en-1-yl acetate 1191-16-8	0.151 mg/kg sediment dw	0.0851 mg/kg sediment dw	100 mg/L	0.00651 mg/kg soil dw	
2(3H)-Furanone, 5-heptyldihydro- 104-67-6	5.341 mg/kg sediment dw	0.534 mg/kg sediment dw	80 mg/L	1.019 mg/kg soil dw	66.7 mg/kg food
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	
Nerol 106-25-2	133 µg/kg sediment dw	13.3 µg/kg sediment dw	12.9 mg/L	22.3 µg/kg soil dw	
3-Methylbutyl butyrate 106-27-4	100 µg/kg sediment dw	10 µg/kg sediment dw	1.51 mg/L	18.1 µg/kg soil dw	
.alpha.-Ionone 127-41-3	0.984 mg/kg sediment dw	98.4 µg/kg sediment dw	13.1 mg/L	0.195 mg/kg soil dw	
BETA IONONE 14901-07-6	22.45122592 mg/kg sediment dw	22.45122592 mg/kg sediment dw	0.0428 mg/L	10.46619104 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	
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	

8.2. Exposure controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face protection No special protective equipment required.

Hand protection No special protective equipment required.

Skin and body protection No special protective equipment required.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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

Property	**Values**	**Remarks • Method**
Melting point / freezing point		No data available
Initial boiling point and boiling range	> 100 °C	
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Flash point		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
pH	6 - 8	Concentrated solution
pH (as aqueous solution)		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Water solubility		No data available
Solubility(ies)		No data available
Partition coefficient		No data available
Vapour pressure		No data available
Relative density		No data available
Bulk density	1 g/mL	
Liquid Density		No data available
Vapour density		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	No information available

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 None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

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.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity
No information available.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	= 795 mg/kg (Rat)	= 3412.5 mg/kg (Rabbit)	-

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity

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

Chemical name	United Kingdom
Vantocil TG (PHMB20)	Carc. 2

Reproductive toxicity No information available.

STOT - single exposure No information available.

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 0.12302 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	EC50: 0.01 mg/L (72h, Pseudokirchneriella subcapitata)	LC50 0.515 mg/L (96h, Lepomis macrochirus)	-	EC50: 0.016 mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Chemical name	Partition coefficient
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	2.75

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	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	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

IMDG	Not regulated
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID	Not regulated
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None

ADR	Not regulated
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None

IATA	Not regulated
14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None
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 does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants
Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)
Not applicable

The Ozone-Depleting Substances Regulations 2015
Not applicable

The Biocidal Products Regulations 2001 (as amended)

Chemical name	The Biocidal Products Regulations 2001 (as amended)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides - 68424-85-1	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 3: Veterinary hygiene Product-type 4: Food and feed area Product-type 8: Wood preservatives Product-type 1: Human hygiene Product-type 10: Construction material preservatives Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimicides Product-type 22: Embalming and taxidermist fluids
Vantocil TG (PHMB20) - 27083-27-8	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 3: Veterinary hygiene Product-type 4: Food and feed area Product-type 11: Preservatives for liquid-cooling and processing systems

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

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)
Not applicable

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
EUH066 - Repeated exposure may cause skin dryness or cracking
H225 - Highly flammable liquid and vapour
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H361d - Suspected of damaging the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure
H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

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

Issuing Date 14-Dec-2022

Revision Date 14-Dec-2022

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
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