



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/758) as amended

Supersedes Date 09/03/2023

Revision date 27/09/2023

Revision Number 5

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

### 1.1. Product identifier

**Product Name** Jelly Belly Air Freshener - Island Punch Jewel (3D Hang and Vent Duo)  
**Product Code(s)** 15363, 15993

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

**Recommended use** Air freshener  
**Uses advised against** None known

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Energizer Trading Ltd  
Sword House  
Totteridge Road  
High Wycombe  
HP13 6DG  
UK  
T: +44(0)8000353376  
E: ConsumerServiceEU@energizer.com

### 1.4. Emergency telephone number

**Emergency Telephone** 1-314-985-1511 Int'l: 1-800-526-4727  
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM  
**United Kingdom** Product information has been submitted to the UK National Poisons Information Service (NPIS) and is accessible to medical health professionals.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

<b>Skin sensitisation</b>	Category 1 - (H317)
<b>Chronic aquatic toxicity</b>	Category 3 - (H412)

### 2.2. Label elements

Contains orange oil, ethyl-2,3-epoxy-3-phenylbutyrate, allyl 3-cyclohexylpropionate



**Signal word**

Warning

**Hazard statements**

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements**

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

P102 - Keep out of reach of children.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with national regulations.

**2.3. Other hazards**

**PBT and vPvB assessment**

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

**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)
benzaldehyde 100-52-7	1 - <2.5%	202-860-4	-	Acute Tox. 4 (H302)	-	-	-
orange oil 8008-57-9	1 - <2.5%	307-891-8	-	Flam. Liq. 3 (H226) Aquatic Chronic 2 (H411) Asp. Tox. 1 (H304) Skin Sens. 1 (H317) Skin Irrit. 2 (H315)	-	-	-
ethyl-2,3-epoxy-3-p henylbutyrate 77-83-8	1 - <2.5%	201-061-8	-	Aquatic Chronic 2 (H411) Skin Sens. 1 (H317)	-	-	-
allyl heptanoate 142-19-8	0.1 - <0.5%	205-527-1	-	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Aquatic Acute 1 (H400) Aquatic Chronic 3	-	1	-

				(H412)			
isopentyl acetate 123-92-2	0.1 - <0.5%	204-662-3	-	(EUH066) Flam. Liq. 3 (H226) [C]	-	-	-
allyl 3-cyclohexylpropion ate 2705-87-5	0.1 - <0.5%	220-292-5	-	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Sens. 1B (H317)	-	1	1
2,6-di-tert-butyl-p-cr esol 128-37-0	0.025 - <0.1%	204-881-4	-	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1
aluminium powder (stabilised) 7429-90-5	<0.025%	231-072-3	-	Flam. Sol. 1 (H228) Pyr. Sol. 1 (H250) Water-react. 2 (H261) [C]	-	-	-

*Classification according to GB CLP (SI 2020/1567 as amended)*

*[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring*

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

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

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

<b>Symptoms</b>	Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	May cause sensitisation in susceptible persons. Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Dry chemical, CO2, alcohol-resistant foam or water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

## **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.

**Hazardous combustion products** Thermal decomposition can lead to release of irritating gases and vapours.

## **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. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**For emergency responders** Use personal protection recommended in Section 8.

## **6.2. Environmental precautions**

**Environmental precautions** Prevent product from entering drains. 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** Use personal protective equipment as required. Do not touch or walk through spilled material. Cover liquid spill with sand, earth or other noncombustible 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** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash thoroughly after handling.

## 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)

See section 1 for more information.

**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
isopentyl acetate 123-92-2	TWA: 50 ppm TWA: 270 mg/m <sup>3</sup> STEL: 100 ppm STEL: 541 mg/m <sup>3</sup>
2,6-di-tert-butyl-p-cresol 128-37-0	TWA: 10 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>
aluminium powder (stabilised) 7429-90-5	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>

**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
benzaldehyde 100-52-7		1.14 mg/kg bw/day [4] [6] 1 % in mixture (weight basis) [5] [7]	9.8 mg/m <sup>3</sup> [4] [6] 9.8 mg/m <sup>3</sup> [5] [6]
ethyl-2,3-epoxy-3-phenylbutyrate 77-83-8		0.7 mg/kg bw/day [4] [6]	2.45 mg/m <sup>3</sup> [4] [6]
allyl heptanoate 142-19-8		0.84 mg/kg bw/day [4] [6]	2.97 mg/m <sup>3</sup> [4] [6]
allyl 3-cyclohexylpropionate 2705-87-5		4.3 mg/kg bw/day [4] [6]	15 mg/m <sup>3</sup> [4] [6]
2,6-di-tert-butyl-p-cresol 128-37-0		0.5 mg/kg bw/day [4] [6]	3.5 mg/m <sup>3</sup> [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
benzaldehyde 100-52-7	0.67 mg/kg bw/day [4] [6]	1 % in mixture (weight basis) [5] [7]	4.9 mg/m <sup>3</sup> [4] [6] 4.9 mg/m <sup>3</sup> [5] [6]
ethyl-2,3-epoxy-3-phenylbutyrate 77-83-8	0.35 mg/kg bw/day [4] [6]		0.61 mg/m <sup>3</sup> [4] [6]
allyl heptanoate 142-19-8	0.42 mg/kg bw/day [4] [6]		0.73 mg/m <sup>3</sup> [4] [6]
allyl 3-cyclohexylpropionate 2705-87-5	2.1 mg/kg bw/day [4] [6]		3.7 mg/m <sup>3</sup> [4] [6]
2,6-di-tert-butyl-p-cresol 128-37-0			0.86 mg/m <sup>3</sup> [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
ethyl-2,3-epoxy-3-phenylbutyrate 77-83-8	0.0084 mg/L	0.084 mg/L	8.4 µg/L		
allyl heptanoate 142-19-8	0.12 µg/L	1.2 µg/L	0.012 µg/L		
isopentyl acetate 123-92-2	0.011 mg/L	0.11 mg/L	0.0011 mg/L		
allyl 3-cyclohexylpropionate 2705-87-5	0.13 µg/L	1.3 µg/L	0.013 µg/L		
2,6-di-tert-butyl-p-cresol 128-37-0	0.199 µg/L	1.99 µg/L	0.0199 µg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
ethyl-2,3-epoxy-3-phenylbutyrate 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
allyl heptanoate 142-19-8	0.012 mg/kg sediment dw	0.0012 mg/kg sediment dw	10 mg/L	0.00233 mg/kg soil dw	
isopentyl 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	
allyl 3-cyclohexylpropionate 2705-87-5	24.13 µg/kg sediment dw	2.413 µg/kg sediment dw	0.2 mg/L	4.75 µg/kg soil dw	143 mg/kg food
2,6-di-tert-butyl-p-cresol 128-37-0	99.6 µg/kg sediment dw	9.96 µg/kg sediment dw	0.17 mg/L	47.69 µg/kg soil dw	8.33 mg/kg food
aluminium powder			20 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
(stabilised) 7429-90-5					

## 8.2. Exposure controls

**Engineering controls** Eyewash stations. Showers. Ventilation systems. Apply technical measures to comply with the occupational exposure limits.

## Personal protective equipment

**Eye/face protection** If there is a risk of contact: Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

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

**Skin and body protection** Wear suitable protective clothing.

**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** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash thoroughly after handling.

**Environmental exposure controls** Keep container closed when not in use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** Solid  
**Appearance** solid  
**Colour** purple  
**Odour** Fruit-like odour  
**Odour threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>		No data available
<b>Initial boiling point and boiling range</b>		No data available
<b>Flammability</b>		No data available
<b>Flammability Limit in Air</b>		No data available
Upper flammability or explosive limits		
Lower flammability or explosive limits		
<b>Flash point</b>		No data available
<b>Autoignition temperature</b>		No data available
<b>Decomposition temperature</b>		No data available
<b>pH</b>		No data available
pH (as aqueous solution)		No data available
<b>Kinematic viscosity</b>		No data available
Dynamic viscosity		No data available
<b>Water solubility</b>		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	
Liquid Density	
Relative vapour density	No data available
Particle characteristics	No data available
Particle Size	No data available
Particle Size Distribution	No data available
Explosive properties	No information available
Oxidising properties	No information available

#### 9.2. Other information

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 Excessive heat.

#### 10.5. Incompatible materials

Incompatible materials None known.

#### 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.

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



**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 mild skin irritation.

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

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

**Acute toxicity**

**Numerical measures of toxicity**

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

ATEmix (oral) 23,406.30 mg/kg  
ATEmix (dermal) 272,699.70 mg/kg  
ATEmix (inhalation-gas) 99,999.00 ppm  
ATEmix (inhalation-dust/mist) 99,999.000 mg/l  
ATEmix (inhalation-vapour) 99,999.00 mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
benzaldehyde	= 1430 mg/kg ( Rat )	> 1250 mg/kg ( Rabbit )	-
orange oil	= 4400 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
ethyl-2,3-epoxy-3-phenylbutyrate	= 5470 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
allyl heptanoate	= 500 mg/kg ( Rat )	= 810 mg/kg ( Rabbit )	-
allyl 3-cyclohexylpropionate	= 585 mg/kg ( Rat )	= 1600 mg/kg ( Rabbit )	-
2,6-di-tert-butyl-p-cresol	> 2930 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
aluminium powder (stabilised)	-	-	> 0.888 mg/L ( Rat ) 4 h

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

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

**STOT - single exposure** Based on available data, the classification criteria are not met.

**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** Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
benzaldehyde	-	LC50: 10.6 - 11.8mg/L (96h, Oncorhynchus mykiss) LC50: =12.69mg/L (96h, Oncorhynchus mykiss) LC50: 0.8 - 1.44mg/L (96h, Lepomis macrochirus) LC50: 6.8 - 8.53mg/L (96h, Pimephales promelas) LC50: =7.5mg/L (96h, Lepomis macrochirus)	-	-
ethyl-2,3-epoxy-3-phenyl butyrate	-	LC50: =4.2mg/L (96h, Oncorhynchus mykiss)	-	-
allyl 3-cyclohexylpropionate	-	LC50: =0.13mg/L (96h, Pimephales promelas)	-	-
2,6-di-tert-butyl-p-cresol	EC50: =6mg/L (72h, Pseudokirchneriella subcapitata) EC50: >0.42mg/L (72h, Desmodesmus subspicatus)	-	-	-

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

#### Bioaccumulation

#### Component Information

Chemical name	Partition coefficient
benzaldehyde	1.4
ethyl-2,3-epoxy-3-phenylbutyrate	2.8
allyl heptanoate	3.97
isopentyl acetate	2.7

allyl 3-cyclohexylpropionate	4.28
2,6-di-tert-butyl-p-cresol	5.1

#### 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
benzaldehyde	The substance is not PBT / vPvB
ethyl-2,3-epoxy-3-phenylbutyrate	The substance is not PBT / vPvB
allyl heptanoate	The substance is not PBT / vPvB
isopentyl acetate	The substance is not PBT / vPvB
allyl 3-cyclohexylpropionate	The substance is not PBT / vPvB
2,6-di-tert-butyl-p-cresol	The substance is not PBT / vPvB
aluminium powder (stabilised)	The substance is not PBT / vPvB PBT assessment does not apply

#### 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

#### IATA

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 user	
Special Provisions	None

#### IMDG

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 user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

**RID**

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 user	
Special Provisions	None

**ADR**

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 user	
Special Provisions	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)**

Not applicable

**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
aluminium powder (stabilised)	Explosive precursor, Reportable with a particle size less than 200 µm

**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  
H226 - Flammable liquid and vapour  
H228 - Flammable solid  
H250 - Catches fire spontaneously if exposed to air  
H261 - In contact with water releases flammable gases  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
H311 - Toxic in contact with skin  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H332 - Harmful if inhaled  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H411 - Toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

#### 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**

U.S. Environmental Protection Agency ChemView Database  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
EPA (Environmental Protection Agency)  
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 Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
World Health Organization

**Supersedes Date** 09/03/2023

**Revision date** 27/09/2023

**Reason for revision** Composition, Section 2, Section 3

**This material safety data sheet 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**