



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 05/23/2025

Revision Number 1

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

### **1.1. Product identifier**

<b>Product Name</b>	Astonish Multi Purpose Bicarb of Soda
<b>Product Code(s)</b>	C3560
<b>Safety data sheet number</b>	0000131
<b>Pure substance/mixture</b>	Mixture
<b>Formula</b>	3560F1

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

**Recommended use** Hard surface cleaning.

**Uses advised against**

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

#### **Manufacturer**

The London Oil Refining Company Ltd  
Astonish House  
Unit 8 Thornbury Ind. Park.  
Woodhall Road  
Bradford BD3 7AF, UK  
Tel: +44 1274 767440 (8pm-4pm Mon-Fri) [www.astonish.co.uk](http://www.astonish.co.uk)  
Astonish Cleaner Europe Ltd  
38 Main Street  
Swords  
Co. Dublin  
Republic of Ireland  
K67E0A2  
Tel: +353 19131585 (8am-4pm Mon-Fri)  
[www.astonishcleaners.eu](http://www.astonishcleaners.eu)  
For further information, please contact

**E-mail address** [info@astonishcleaners.eu](mailto:info@astonishcleaners.eu) [info@astonish.co.uk](mailto:info@astonish.co.uk)

### **1.4. Emergency telephone number**

Emergency Telephone

ROI - Emergency Telephone: +353 19131585 (8am-4pm Mon-Fri) Poisons Information  
Centre of Ireland (ROI): +353 (1) 8092166 (8am-10pm 7 days a week)**Emergency Telephone - §45 - (EC)1272/2008****Europe****112****SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

**2.2. Label elements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

**Hazard statements**This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]  
EUH208 - Contains 1,2-benzisothiazol-3(2H)-one May produce an allergic reaction.**Precautionary Statements - EU (§28, 1272/2008)**

P102 - Keep out of reach of children.

P103 - Read label before use.

P280 - Wear protective gloves.

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

**Unknown aquatic toxicity**

Contains 0 % of components with unknown hazards to the aquatic environment.

**2.3. Other hazards**

No information available.

**Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
ethanol 64-17-5	1 - <2.5%	01-2119457610-43-0000	(603-002-00-5) 200-578-6	Flam. Liq. 2 (H225)	-	-	-
Sodium Bicarbonate 144-55-8	1 - <2.5%	No data available	205-633-8	No data available	-	-	-
1,2-benzisothiazol-3(2H)-one 2634-33-5	<0.025%	01-2120761540-60-0000	(613-088-00-6) 220-120-9	Aquatic Chronic 2 (H411) Skin Sens. 1 (H317)	Skin Sens. 1 :: C>=0.036%	-	-

				Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)			
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**Full text of H- and EUH-phrases: see section 16**

### **Acute Toxicity Estimate**

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
ethanol 64-17-5	7060	No data available	116.9 133.8	No data available	No data available
Sodium Bicarbonate 144-55-8	4220	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)- one 2634-33-5	1020	2000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Rinse mouth.

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

<b>Symptoms</b>	No information available.
<b>Effects of Exposure</b>	See Section 11 for additional Toxicological Information.

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

<b>Note to physicians</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the
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surrounding environment.

**Large Fire**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**

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**

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**

Take up mechanically, placing in appropriate containers for disposal.

**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**

Ensure adequate ventilation.

**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 container tightly closed in a dry and well-ventilated place.

**Storage class (TRGS 510)**

Not applicable.

**7.3. Specific end use(s)**

**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	European Union	Austria	Belgium	Bulgaria	Croatia
ethanol 64-17-5	-	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL 2000 ppm STEL 3800 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1907 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
ethanol 64-17-5	-	TWA: 1000 mg/m <sup>3</sup> Ceiling: 3000 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 2000 ppm STEL: 3800 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1000 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 1300 ppm STEL: 2500 mg/m <sup>3</sup>
Sodium Bicarbonate 144-55-8	-	TWA: 5 mg/m <sup>3</sup> Ceiling: 10 mg/m <sup>3</sup>	-	-	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
ethanol 64-17-5	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 5000 ppm STEL: 9500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 380 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 380 mg/m <sup>3</sup> Peak: 800 ppm Peak: 1520 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 2000 ppm STEL: 3800 mg/m <sup>3</sup>
1,2-benzisothiazol-3(2H)- one 2634-33-5	-	-	skin sensitizer	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
ethanol 64-17-5	STEL: 1000 ppm	-	STEL: 1000 ppm STEL: 1884 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup>	STEL: 1000 ppm STEL: 1900 mg/m <sup>3</sup> TWA: 500 ppm TWA: 1000 mg/m <sup>3</sup>
Sodium Bicarbonate 144-55-8	-	-	-	TWA: 5 mg/m <sup>3</sup>	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
ethanol 64-17-5	-	-	TWA: 137 ppm TWA: 260 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1900 mg/m <sup>3</sup> H*	TWA: 500 ppm TWA: 950 mg/m <sup>3</sup> STEL: 625 ppm STEL: 1187.5 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 5000 ppm STEL: 9500 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 960 mg/m <sup>3</sup> Ceiling: 1920 mg/m <sup>3</sup>	TWA: 960 mg/m <sup>3</sup> TWA: 500 ppm STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup>	STEL: 1000 ppm STEL: 1910 mg/m <sup>3</sup>
Chemical name	Sweden		Switzerland		United Kingdom
ethanol 64-17-5	Vägledande KGV: 1000 ppm Vägledande KGV: 1900 mg/m <sup>3</sup> NGV: 500 ppm NGV: 1000 mg/m <sup>3</sup>		TWA: 500 ppm TWA: 960 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup>		TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup> STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup>

**Biological occupational exposure** This product, as supplied, does not contain any hazardous materials with biological limits

limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
ethanol 64-17-5	-	343 mg/kg bw/day [4] [6]	950 mg/m <sup>3</sup> [4] [6] 1900 mg/m <sup>3</sup> [5] [7]
Alkylpolyglycoside C8-10 68515-73-1	-	595000 mg/kg bw/day [4] [6]	420 mg/m <sup>3</sup> [4] [6]
Amines, C12-14-alkyldimethyl, N-oxides 308062-28-4	-	11 mg/kg bw/day [4] [6]	6.2 mg/m <sup>3</sup> [4] [6]
Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate 51981-21-6	-	15000 mg/kg bw/day [4] [6]	7.3 mg/m <sup>3</sup> [4] [6]
methanol 67-56-1	-	20 mg/kg bw/day [4] [6] 20 mg/kg bw/day [4] [7]	130 mg/m <sup>3</sup> [4] [6] 130 mg/m <sup>3</sup> [4] [7] 130 mg/m <sup>3</sup> [5] [6] 130 mg/m <sup>3</sup> [5] [7]
1,2-benzisothiazol-3(2H)-one 2634-33-5	-	0.966 mg/kg bw/day [4] [6]	6.81 mg/m <sup>3</sup> [4] [6]
Sodium Hydroxide 1310-73-2	-	-	1 mg/m <sup>3</sup> [5] [6]
Linalool 78-70-6	-	2.5 mg/kg bw/day [4] [6] 5 mg/kg bw/day [4] [7] 3 mg/cm <sup>2</sup> [5] [6] 3 mg/cm <sup>2</sup> [5] [7]	2.8 mg/m <sup>3</sup> [4] [6] 16.5 mg/m <sup>3</sup> [4] [7]
allyl alcohol 107-18-6	-	0.125 mg/kg bw/day [4] [6] 7.6 mg/kg bw/day [4] [7]	4.63 mg/m <sup>3</sup> [4] [6] 12.1 mg/m <sup>3</sup> [4] [7] 12.1 mg/m <sup>3</sup> [5] [7]
Methylal 109-87-5	-	17.9 mg/kg bw/day [4] [6]	126.6 mg/m <sup>3</sup> [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
ethanol 64-17-5	87 mg/kg bw/day [4] [6]	-	114 mg/m <sup>3</sup> [4] [6] 950 mg/m <sup>3</sup> [5] [7]
Alkylpolyglycoside C8-10 68515-73-1	35.7 mg/kg bw/day [4] [6]	-	124 mg/m <sup>3</sup> [4] [6]
Amines, C12-14-alkyldimethyl, N-oxides 308062-28-4	0.44 mg/kg bw/day [4] [6]	-	1.53 mg/m <sup>3</sup> [4] [6]
Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate 51981-21-6	1.5 mg/kg bw/day [4] [6]	-	1.8 mg/m <sup>3</sup> [4] [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/m <sup>3</sup> [4] [6] 26 mg/m <sup>3</sup> [4] [7] 26 mg/m <sup>3</sup> [5] [6] 26 mg/m <sup>3</sup> [5] [7]

Chemical name	Oral	Dermal	Inhalation
1,2-benzisothiazol-3(2H)-one 2634-33-5	-	-	1.2 mg/m <sup>3</sup> [4] [6]
Sodium Hydroxide 1310-73-2	-	-	1 mg/m <sup>3</sup> [5] [6]
Linalool 78-70-6	0.2 mg/kg bw/day [4] [6] 1.2 mg/kg bw/day [4] [7]	2.5 mg/kg bw/day [4] [6] 2.5 mg/kg bw/day [4] [7] 1.5 mg/cm <sup>2</sup> [5] [6] 1.5 mg/cm <sup>2</sup> [5] [7]	0.7 mg/m <sup>3</sup> [4] [6] 4.1 mg/m <sup>3</sup> [4] [7]
allyl alcohol 107-18-6	0.075 mg/kg bw/day [4] [6]	-	-
Methylal 109-87-5	18.1 mg/kg bw/day [4] [6]	-	31.5 mg/m <sup>3</sup> [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
Alkylpolyglycoside C8-10 68515-73-1	0.176 mg/L	0.27 mg/L	0.0176 mg/L	-	-
Amines, C12-14- alkyldimethyl, N-oxides 308062-28-4	0.0335 mg/L	0.0335 mg/L	0.00335 mg/L	-	-
Tetrasodium N,N- bis(carboxylatomethyl)-L- glutamate 51981-21-6	9.45 mg/L	0.953 mg/L	0.945 mg/L	0.0953 mg/L	-
methanol 67-56-1	20.8 mg/L	1540 mg/L	2.08 mg/L	-	-
1,2-benzisothiazol-3(2H)- one 2634-33-5	4.03 µg/L	1.1 µg/L	0.403 µg/L	110 ng/L	-
Linalool 78-70-6	0.2 mg/L	2 mg/L	0.02 mg/L	-	-
allyl alcohol 107-18-6	3.2 µg/L	3.2 µg/L	0.32 µg/L	-	-
Methylal 109-87-5	14.577 mg/L	-	1.477 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Alkylpolyglycoside C8-10 68515-73-1	1.516 mg/kg sediment dw	0.152 mg/kg sediment dw	560 mg/L	0.654 mg/kg soil dw	111.11 mg/kg food
Amines, C12-14- alkyldimethyl, N-oxides 308062-28-4	5.24 mg/kg sediment dw	0.524 mg/kg sediment dw	24 mg/L	1.02 mg/kg soil dw	11.1 mg/kg food
Tetrasodium N,N- bis(carboxylatomethyl)-L-	-	-	41.2 mg/L	0.5 mg/kg soil dw	67 mg/kg food

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
glutamate 51981-21-6					
methanol 67-56-1	77 mg/kg sediment dw	7.7 mg/kg sediment dw	100 mg/L	100 mg/kg soil dw	-
1,2-benzisothiazol-3(2H)-one 2634-33-5	49.9 µg/kg sediment dw	4.99 µg/kg sediment dw	1.03 mg/L	3 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	7.8 mg/kg food
allyl alcohol 107-18-6	12.7 µg/kg sediment dw	1.27 µg/kg sediment dw	10 mg/L	3.68 µg/kg soil dw	0.33 mg/kg food
Methylal 109-87-5	13.135 mg/kg sediment dw	-	10 g/L	4.6538 mg/kg soil dw	-

## 8.2. Exposure controls

<b>Engineering controls</b>	No information available.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	No special protective equipment required.
<b>Hand protection</b>	Wear suitable gloves.
<b>Skin and body protection</b>	No special protective equipment required.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental exposure controls</b>	No information available.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid
<b>Color</b>	Colourless
<b>Odor</b>	Fruity/Floral.
<b>Odor threshold</b>	Not applicable

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>Melting point / freezing point</b>	No data available	None known
<b>Initial boiling point and boiling range</b>	No data available	None known
<b>Flammability</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	No data available	None known

Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	8.25 - 9.25	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size		
Particle Size Distribution		

## 9.2. Other information

### *9.2.1. Information with regard to physical hazard classes*

Not applicable

### *9.2.2. Other safety characteristics*

Not applicable

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity Stable.

### 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. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	No known effect based on information supplied.
<b>Eye contact</b>	May cause slight eye irritation.
<b>Skin contact</b>	May cause sensitization in susceptible persons.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

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

<b>Symptoms</b>	May cause redness and tearing of the eyes.
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**Acute toxicity****Numerical measures of toxicity**

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

<b>ATEmix (oral)</b>	226,791.90 mg/kg
<b>ATEmix (dermal)</b>	99,999.00 mg/kg
<b>ATEmix (inhalation-gas)</b>	99,999.00 ppm
<b>ATEmix (inhalation-vapor)</b>	99,999.00 mg/l
<b>ATEmix (inhalation-dust/mist)</b>	99,999.00 mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ethanol	= 7060 mg/kg ( Rat )	-	= 116.9 mg/L ( Rat ) 4 h = 133.8 mg/L ( Rat ) 4 h
Sodium Bicarbonate	= 4220 mg/kg ( Rat )	-	-
1,2-benzisothiazol-3(2H)-one	= 1020 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-

**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 sensitization** May cause sensitization in susceptible persons.

**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.

## **11.2. Information on other hazards**

### **11.2.1. Endocrine disrupting properties**

### **11.2.2. Other information**

**Other adverse effects** No other adverse effects expected.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

#### **Ecotoxicity**

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
ethanol	-	LC50: 12.0 - 16.0mg/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 13400 - 15100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)
Sodium Bicarbonate	-	LC50: 8250 - 9000mg/L (96h, Lepomis macrochirus)	-	EC50: =2350mg/L (48h, Daphnia magna)

### **12.2. Persistence and degradability**

**Persistence and degradability** None known.

### **12.3. Bioaccumulative potential**

**Bioaccumulation** Not likely to bioaccumulate.

#### **Component Information**

Chemical name	Partition coefficient
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ethanol	-0.35
1,2-benzisothiazol-3(2H)-one	0.99

**12.4. Mobility in soil**

**Mobility in soil** Not determined.

**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 above the threshold of declaration.

Chemical name	PBT and vPvB assessment
ethanol	The substance is not PBT / vPvB
Sodium Bicarbonate	The substance is not PBT / vPvB
1,2-benzisothiazol-3(2H)-one	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects****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 Not regulated

according to IMO instruments

**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****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
ethanol - 64-17-5	RG 84
1,2-benzisothiazol-3(2H)-one - 2634-33-5	RG 65

**Netherlands**

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
ethanol	Present	-	Fertility Category 1A Development Category 1A Can be harmful via breastfeeding

**European Union**

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.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
1,2-benzisothiazol-3(2H)-one - 2634-33-5	75.	-

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**EU - Plant Protection Products (1107/2009/EC)**

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Sodium Bicarbonate - 144-55-8	Plant protection agent

**Biocidal Products Regulation (EU) No 528/2012 (BPR)**

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
ethanol - 64-17-5	Product-type 1: Human hygiene Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 4: Food and feed area
1,2-benzisothiazol-3(2H)-one - 2634-33-5	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 6: Preservatives for products during storage Product-type 9: Fiber, leather, rubber and polymerized materials preservatives Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimecides Product-type 13: Working or cutting fluid preservatives

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AIIC</b>	Contact supplier for inventory compliance status
<b>NZIoC</b>	Contact supplier for inventory compliance status

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report** A Chemical Safety Assessment has not been carried out for this mixture

**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 vapor  
 H302 - Harmful if swallowed  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H400 - Very toxic to aquatic life  
 H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: Exposure controls/personal protection**

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

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 - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	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)  
 Australia 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)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

Revision date 05/23/2025

### Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

#### 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**

## Europe

### EU SDS version information - EGHS

UL release:  
 GHS Revision 7  
 2022 Q1

### Europe

Partial process, including GHS Wizard, NO TW

Full text of H-Statements referred to under section 3 H225 - Highly flammable liquid and vapor H302 - Harmful if swallowed H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H400 - Very toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects

Chemical name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)
ethanol	Flam. Liq. 2 (H225)	
1,2-benzisothiazol-3(2H)-one	Aquatic Chronic 2 (H411) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	Skin Sens. 1 :: C>=0.036%

Chemical name	CAS No	French RG number
ethanol	64-17-5	RG 84
1,2-benzisothiazol-3(2H)-one	2634-33-5	RG 65

**Storage class (TRGS 510)**

Not applicable