



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
UK REACH Regulations (SI 2019/758 as amended)

Revision date 19/09/2023

Revision Number 4

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

### 1.1. Product identifier

Product Name Wheel Cleaner - Polished Pigs

Pure substance/mixture Mixture

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

Recommended use Automotive Care

Uses advised against Use only for intended applications.

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

#### Supplier

Polished Pigs Detailing Ltd  
35 Mill Lane  
Albrighton  
Wolverhampton  
WV7 3ND  
07555 168313

### 1.4. Emergency telephone number

See number above Mon - Fri 9am - 5pm  
If you urgently need medical help or advice but it is not a life-threatening situation, call 111 free from any phone to speak to an NHS adviser. The 24-hour NHS 111 service can give you healthcare advice or direct you to the local service that can help you best.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)

### 2.2. Label elements

Contains TETRASODIUM ETHYLENE DIAMINE TETRAACETATE, Alkyl Amidopropyl Betaine, Alcohols, C9-11, ethoxylated, SODIUM HYDROXIDE

Detergent Labelling: 5 - < 15% EDTA and salts thereof, < 5% Amphoteric surfactants, < 5% Non-ionic surfactants, Limonene



### Signal word

Danger

### Hazard statements

H314 - Causes severe skin burns and eye damage

### Precautionary statements

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

P102 - Keep out of reach of children

P260 - Do not breathe vapours/spray

P280 - Wear protective gloves/protective clothing and eye/face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

### Additional information

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

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	CAS No	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)
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	64-02-8	5-10%	200-573-9	01-21194867 62-27-XXXX	Acute Tox. 4 (H302) Aquatic Acute Tox. 3 (H332) Eye Dam. 1 (H318) STOT RE 2 (H373)	-	-	-

Alkyl Amidopropyl Betaine	147170-44-3	1-5%	931-296-8	-	Aquatic Chronic 3 (H412) Eye Dam. 1 (H318)	-	-	-
Alcohols, C9-11, ethoxylated	68439-46-3	1-5%	500-457-0	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	-	-	-
SODIUM HYDROXIDE	1310-73-2	1-5%	215-185-5	-	Eye Dam. 1 (H318) Met. Corr. 1 (H290) Skin Corr. 1A (H314)	Eye Dam. 1 :: C>=2% Eye Irrit. 2 :: 0.5%<=C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Skin Irrit. 2 :: 0.5%<=C<2%	-	-

**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**

- General advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
- Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. 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. Delayed pulmonary edema may occur. Get immediate medical attention.
- Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
- Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.
- Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
- Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

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

**Symptoms** Burning sensation.

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

**Note to doctors** Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the 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** The product causes burns of eyes, skin and mucous membranes. 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** Attention! Corrosive material. 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.

**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** 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

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. 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.

#### General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. 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. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

### 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	CAS No	United Kingdom
SODIUM HYDROXIDE	1310-73-2	STEL: 2 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	CAS No	Oral	Dermal	Inhalation
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	64-02-8			1.5 mg/m <sup>3</sup> [4] [6]
Alkyl Amidopropyl Betaine	147170-44-3		12.5 mg/kg bw/day [4] [6]	44 mg/m <sup>3</sup> [4] [6]
Alcohols, C9-11, ethoxylated	68439-46-3		2080 mg/kg bw/day [4] [6]	294 mg/m <sup>3</sup> [4] [6]
SODIUM HYDROXIDE	1310-73-2			1 mg/m <sup>3</sup> [5] [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	CAS No	Oral	Dermal	Inhalation
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	64-02-8	25 mg/m <sup>3</sup> [4] [6]		1.2 mg/m <sup>3</sup> [4] [6]
Alkyl Amidopropyl Betaine	147170-44-3	7.5 mg/kg bw/day [4] [6]		13.04 mg/m <sup>3</sup> [4] [6]
Alcohols, C9-11, ethoxylated	68439-46-3	25 mg/kg bw/day [4] [6]		87 mg/m <sup>3</sup> [4] [6]
SODIUM HYDROXIDE	1310-73-2			1 mg/m <sup>3</sup> [5] [6]

#### Notes

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

#### Predicted No Effect Concentration (PNEC)

Chemical name	CAS No	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	64-02-8	2.2mg/L	1.2 mg/l	0.22 mg/l	1.2 mg/l	
Alkyl Amidopropyl Betaine	147170-44-3	0.0135 mg/L		0.00135 mg/L		
Alcohols, C9-11, ethoxylated	68439-46-3	0.10379 mg/L	0.014 mg/L	0.10379 mg/L		

Chemical name	CAS No	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	64-02-8				0.72mg/kg	
Alkyl Amidopropyl Betaine	147170-44-3	14.8 mg/kg sediment dw	1.48 mg/kg sediment dw	3000 mg/L	0.8 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** No information available.

#### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield. Eye protection must conform to standard EN 166.

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

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

**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** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. 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.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid
<b>Appearance</b>	Liquid
<b>Colour</b>	orange
<b>Odour</b>	Citrus.
<b>Odour threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<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
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	14	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Water solubility</b>	Soluble in water	None known
<b>Solubility(ies)</b>	Soluble in water	None known
<b>Partition coefficient</b>	No data available	None known
<b>Vapour pressure</b>	No data available	None known
<b>Relative density</b>	~1.1	None known
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	No data available	
<b>Relative vapour density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidising properties</b>	No information available	

### 9.2. Other information

**VOC content** No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.

**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** Exposure to air or moisture over prolonged periods.

**10.5. Incompatible materials**

**Incompatible materials** Acids. Bases. Oxidising agent.

**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**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

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

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing.



**Acute toxicity****Numerical measures of toxicity**

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

ATEmix (oral)	3,651.30 mg/kg
ATEmix (dermal)	52,746.30 mg/kg
ATEmix (inhalation-gas)	53,057.90 ppm
ATEmix (inhalation-dust/mist)	17.70 mg/l
ATEmix (inhalation-vapour)	129.70 mg/l

**Component Information**

Chemical name	CAS No	Oral LD50	Dermal LD50	Inhalation LC50
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	64-02-8	= 1658 mg/kg ( Rat )	-	-
Alcohols, C9-11, ethoxylated	68439-46-3	= 1400 mg/kg ( Rat )	-	-
SODIUM HYDROXIDE	1310-73-2	= 325 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	-

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

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Causes severe skin burns and eye damage.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes serious eye damage. Causes burns.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Other adverse effects</b>	No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

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

Chemical name	CAS No	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	64-02-8	-	LC50: =41mg/L (96h, Lepomis macrochirus) LC50: =59.8mg/L (96h, Pimephales promelas)	-	-
SODIUM HYDROXIDE	1310-73-2	-	LC50: =45.4mg/L (96h, Oncorhynchus mykiss)	-	-

**12.2. Persistence and degradability****Persistence and degradability** No information available.**12.3. Bioaccumulative potential****Bioaccumulation** There is no data for this product.**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	CAS No	PBT and vPvB assessment
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	64-02-8	The substance is not PBT / vPvB
Alkyl Amidopropyl Betaine	147170-44-3	The substance is not PBT / vPvB
Alcohols, C9-11, ethoxylated	68439-46-3	The substance is not PBT / vPvB
SODIUM HYDROXIDE	1310-73-2	The substance is not PBT / vPvB

**12.6. Endocrine disrupting properties**

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** UN1760

14.2 UN proper shipping name	Corrosive liquid, n.o.s. Contains Sodium Hydroxide
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN1760, Corrosive liquid, n.o.s. , 8, III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	A3, A803
ERG Code	8L

**IMDG**

14.1 UN number or ID number	UN1760
14.2 UN proper shipping name	Corrosive liquid, n.o.s. Contains Sodium Hydroxide
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN1760, Corrosive liquid, n.o.s. , 8, III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	274, 223
EmS-No	F-A, S-B
14.7 Maritime transport in bulk according to IMO instruments	No information available

**RID**

14.1 UN number or ID number	UN1760
14.2 UN proper shipping name	Corrosive liquid, n.o.s. Contains Sodium Hydroxide
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN1760, Corrosive liquid, n.o.s. , 8, III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	274
Classification code	C9

**ADR**

14.1 UN number or ID number	UN1760
14.2 UN proper shipping name	Corrosive liquid, n.o.s. Contains Sodium Hydroxide
14.3 Transport hazard class(es)	8
14.4 Packing group	III
Description	UN1760, Corrosive liquid, n.o.s. , 8, III, (E)
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	274
Classification code	C9
Tunnel restriction code	(E)

**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	CAS No	Poisons and Explosive Precursors
SODIUM HYDROXIDE	1310-73-2	Poison, Reportable 12 % of total caustic alkalinity

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status
<b>DSL/NDL</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/NDL** - 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** 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**

- H290 - May be corrosive to metals
- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage  
 H332 - Harmful if inhaled  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H412 - Harmful 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

Revision date 19/09/2023

**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**