



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/9

OXI-BRITE LIQUID

Revision 24
Revision date 2020-11-06

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

1.1. Product identifier

Product name	OXI-BRITE LIQUID
Product code	QAFS043 & 7/7176

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);
Description	A concentrated acid cleaning solution containing Oxalic Acid, for the removal of iron brake block dust from railway rolling stock. Dilute at the rate of 1 part concentrate to 2 parts water.

1.3. Details of the supplier of the safety data sheet

Company	Superfine Manufacturing Ltd
Address	Orchardbank Industrial Estate Forfar Angus Scotland DD8 1TD
Web	www.superfine.co.uk
Telephone	Tel: 01307 463538
Fax	Fax: 01307 468505
Email	nigel@superfine.co.uk
Email address of the competent person	nigel@superfine.co.uk

1.4. Emergency telephone number

Emergency telephone number	01307 463538 8.30am to 17.00pm National Poisons Information Service: For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice) If you are a healthcare professional with an enquiry please visit www.TOXBASE.org
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Eye Dam. 1: H318;
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2.2. Label elements

OXI-BRITE LIQUID

Revision 24

Revision date 2020-11-06

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Eye Dam. 1: H318 - Causes serious eye damage.
Precautionary Statement: Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
SUPPLEMENTAL HAZARD INFORMATION	Ingredients - Triethanolamine, Ethanedioic Acid, Less than 5% Non-ionic surfactants, Butylene Glycol.

2.3. Other hazards

Other hazards	This mixture is not classified as PBT or vPvB according to current EU criteria.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
C9-11 Alcohol Ethoxylate with EO		68439-45-2			1 - 10%	Acute Tox. 4: H302; Eye Dam. 1: H318;
Triethanolamine		102-71-6	203-049-8	01-2119486482-31	1 - 10%	
Diethanolamine		111-42-2	203-868-0	01-2119488930-28	0.5 - 1%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Repr. 2: H361fd; STOT RE 2: H373;
Oxalic Acid (Oxalic acid)		6153-56-6	205-634-3	01-2119534576-33	1 - 10%	Acute Tox. 4: H302+H312; Eye Dam. 1: H318;
2-butoxyethanol	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	1 - 10%	Acute Tox. 4: H332; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315;

Further information

Product Shelf Life	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash with water and soap as a precaution.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly.

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

Inhalation	Irritating to respiratory system.
Eye contact	Causes serious eye damage.
Skin contact	Irritating to skin.
Ingestion	Irritating to mucous membranes.

OXI-BRITE LIQUID

Revision 24

Revision date 2020-11-06

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

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention if irritation or symptoms persist.

General information

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

	This product is not flammable . Use fire-extinguishing media appropriate for surrounding materials.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Fire fighters should wear self contained positive pressure breathing apparatus (SCBA) and full turnout gear.
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Further information

	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	Wear suitable protective equipment.
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6.2. Environmental precautions

	Advise local authorities if large spills cannot be contained.
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6.3. Methods and material for containment and cleaning up

	For large spills: Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. For small spills: Flush down the drain with plenty of water.
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6.4. Reference to other sections

	See section 2, 7, 8, 13 for further information.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Adopt best Manual Handling considerations when handling, carrying and dispensing.
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7.2. Conditions for safe storage, including any incompatibilities

	Store in a cool, dry area. Keep container tightly closed. Keep out of the reach of children. Store in original container.
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7.3. Specific end use(s)

	A concentrated acid cleaning solution containing Oxalic Acid, for the removal of iron brake block dust from railway rolling stock. Dilute at the rate of 1 part concentrate to 2 parts water.
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Suitable packaging

	Plastic containers.
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SECTION 8: Exposure controls/personal protection

OXI-BRITE LIQUID

Revision 24
Revision date 2020-11-06

8.1. Control parameters

Occupational exposure controls.

8.1.1. Exposure Limit Values

2-butoxyethanol	WEL 8-hr limit ppm: 25 WEL 15 min limit ppm: 50 WEL 8-hr limit mg/m ³ total inhalable dust: - WEL 8-hr limit mg/m ³ total respirable dust: -	WEL 8-hr limit mg/m ³ : 123 WEL 15 min limit mg/m ³ : 101.2 WEL 15 min limit mg/m ³ total inhalable dust: - WEL 15 min limit mg/m ³ total respirable dust: -
Oxalic Acid (Oxalic acid)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m ³ total inhalable dust: - WEL 8-hr limit mg/m ³ total respirable dust: -	WEL 8-hr limit mg/m ³ : 1 WEL 15 min limit mg/m ³ : 2 WEL 15 min limit mg/m ³ total inhalable dust: - WEL 15 min limit mg/m ³ total respirable dust: -

DNEL: Derived no-effect level.

Exposure Pattern - Workers

2-butoxyethanol	Acute inhalation - Systemic effects 1091 mg/m ³ Acute inhalation - Local effects 246 mg/m ³ Long-term - inhalation - Systemic effects 98 mg/m ³	Acute dermal - Systemic effects 89 mg/kg Long-term - dermal - Systemic effects 125 mg/kg
Oxalic Acid	Acute dermal - Local effects 0.69 mg/cm ³ Long-term - inhalation - Systemic effects 4.03 mg/m ³	Long-term - dermal - Systemic effects 2.29 mg/kg
Triethanolamine	Long-term - inhalation - Systemic effects 5 mg/m ³ Long-term - inhalation - Local effects 5 mg/m ³	Long-term - dermal - Systemic effects 6.3 mg/kg

Exposure Pattern - General population

2-butoxyethanol	Acute inhalation - Systemic effects 426 mg/m ³ Acute dermal - Systemic effects 89 mg/kg Long-term - inhalation - Systemic effects 59 mg/m ³ Long-term - dermal - Systemic effects 75 mg/kg	Acute oral - Systemic effects 26.7 mg/kg Long-term - inhalation - Local effects 147 mg/m ³ Long-term - oral - Systemic effects 6.3 mg/kg
Oxalic Acid	Acute dermal - Local effects 0.35 mg/m ³ Long-term - dermal - Systemic effects 1.14 mg/kg	Long-term - oral - Systemic effects 1.14 mg/m ³
Triethanolamine	Long-term - inhalation - Systemic effects 1.25 mg/m ³ Long-term - inhalation - Local effects 1.25 mg/m ³ Long-term - oral - Systemic effects 13 mg/kg	Long-term - dermal - Systemic effects 3.1 mg/kg

8.2. Exposure controls



OXI-BRITE LIQUID

Revision 24

Revision date 2020-11-06

8.2. Exposure controls

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.
8.2.1. Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location.
Eye / face protection	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Skin protection - Handprotection	Rubber gloves. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
8.2.3. Environmental exposure controls	Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Clear/Amber
Odour	Mild
Odour threshold	No data available
pH	2.1 - 2.5
Melting point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	NOT-FLAMMABLE
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.04 - 1.06 (H ₂ O = 1 @ 20 °C)
Water solubility	100 g/cm ³
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	< 50 centipoise
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available
Conductivity	No data available
Surface tension	No data available

OXI-BRITE LIQUID

Revision 24

Revision date 2020-11-06

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable under normal conditions. No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal conditions. No particular stability concerns.

10.3. Possibility of hazardous reactions

Strong acids. Strong oxidising agents.

10.4. Conditions to avoid

Protect from frost. Avoid storing in direct Sun Light.

10.5. Incompatible materials

Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

No Hazardous decomposition products when stored and handled correctly.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity	This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).
	based on available data the classification criteria are not met. Oral ATE = >2,000 mg/kg. Dermal ATE = >5,000 mg/kg. Inhalation - Dust/Mist ATE = 30.61 mg/l.
Skin corrosion/irritation	based on available data the classification criteria are not met.
Serious eye damage/irritation	Eye Dam. 1: H318 - Causes serious eye damage.
Respiratory or skin sensitisation	based on available data the classification criteria are not met.
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.

11.1.2. Mixtures

No data available.

11.1.3. Hazard Information

No data available.

11.1.4. Toxicological Information

2-butoxyethanol	Inhalation Rat LC50/15min: 4500 ppm	Inhalation Rat LC50/30min: 11.0 mg/l
	Dermal Rat LD50: 1100 mg/kg	Oral Rat LD50: 1300 mg/kg
C9-11 Alcohol Ethoxylate with EO	Oral Rat LD50: 1100 mg/kg	
Oxalic Acid	Oral Rat LD50: 500.0 mg/kg	Dermal Rabbit LD50: 1100.0 mg/kg
Triethanolamine	Dermal Rat LD50: >2000 mg/kg	Oral Rat LD50: 6400 mg/kg

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

OXI-BRITE LIQUID

Revision 24
Revision date 2020-11-06

12.1. Toxicity

2-butoxyethanol	EC50 for marine or freshwater organisms >100.0000 mg/l	LC50 for marine or freshwater organisms >100.0000 mg/l
Oxalic Acid	Daphnia EC50/48h: 162.2000 mg/l	
Triethanolamine	Daphnia EC50/48h: 2500.0000 mg/l Fish LC50/96h: 7900.0000 mg/l	Algae IC50/72h: 216.0000 mg/l

12.2. Persistence and degradability

	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.
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12.3. Bioaccumulative potential

	The product is not bioaccumulating.
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Partition coefficient

	OXI-BRITE LIQUID No data available Oxalic Acid -0.81 log P	Triethanolamine -2.3 Log Pow 2-butoxyethanol 0.8 log P
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12.4. Mobility in soil

	This product is soluble in water.
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12.5. Results of PBT and vPvB assessment

	This mixture is not classified as PBT or vPvB according to current EU criteria.
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12.6. Other adverse effects

	No data available.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

	Dispose of waste and residues in accordance with local authority requirements.
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General information

	Dispose of in compliance with all local and national requirements.
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Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.
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SECTION 14: Transport information

14.1. UN number

	The product is not classified as dangerous for carriage.
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14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
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14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
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14.4. Packing group

	The product is not classified as dangerous for carriage.
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14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
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14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
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OXI-BRITE LIQUID

Revision 24

Revision date 2020-11-06

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	The product is not classified as dangerous for carriage.
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	<p>REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> <p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p>
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15.2. Chemical safety assessment

	No information available.
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SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:. 1 - Product Use. 2 - SUPPLEMENTAL HAZARD INFORMATION. 3 - Active Ingredients. 5 - 5.3. Advice for firefighters. 7 - 7.3. Specific end use(s). 8 - Skin protection - Handprotection. 8 - Eye / face protection. 10 - 10.4. Conditions to avoid. 10 - 10.6. Hazardous decomposition products. 10 - 10.5. Incompatible materials. 11 - Acute toxicity. 12 - 12.4. Mobility in soil. 12 - 12.3. Bioaccumulative potential. 12 - 12.5. Results of PBT and vPvB assessment.
Data sources	Classification and Procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008:. Eye Dam. 1: H318 - Causes serious eye damage. - Calculation Method.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Skin Irrit. 2: H315 - Causes skin irritation. Repr. 2: H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure . Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin Acute Tox. 4: H312 - Harmful in contact with skin. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in
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OXI-BRITE LIQUID

Revision 24

Revision date 2020-11-06

Further information

	combination with any other materials or in any other process.
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