



Pakex (UK) Plc, No 1, Prime Point, Bessemer Road, Welwyn Garden City, Herts, AL7 1FE  
Tel: 01707 384858 | Fax: 01707 332838 | web : [www.pakexuk.com](http://www.pakexuk.com)

# SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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## OXI-BRITE LIQUID

Revision 18  
Revision date 2016-05-18

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

#### 1.1. Product identifier

Product name	OXI-BRITE LIQUID
Product code	qafs043

#### 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); -----
Description	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; 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	Pakex (UK) Plc,
Address	No 1, Prime Point, Bessemer Road, Welwyn Garden City, Herts, AL7 1FE
Web	<a href="http://www.pakexuk.com">www.pakexuk.com</a>
Telephone	Tel: 01707 384858
Fax	Fax: 01707 332838
Email	<a href="mailto:sales@pakexuk.com">sales@pakexuk.com</a>

#### 1.4. Emergency telephone number

Emergency telephone number	01707 384858 8.30am to 17.00pm
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xi; R36 Symbols: Xi: Irritant.
Main hazards	Irritating to eyes.
2.1.2. Classification - EC 1272/2008	Eye Dam. 1: H318;


#### 2.2. Label elements

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## 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.

## 2.3. Other hazards

Other hazards	PBT not identified as a PBT substance.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Oxalic Acid (Oxalic acid)		144-62-7	205-634-3	01-2119534576-33	1 - 10%	Xn; R21/22 Xi; R41	
2-butoxyethanol	603-014-00-0	111-76-2	203-905-0	01-2119475108-36	1 - 10%	Xn; R20/21/22 Xi; R36/38	

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
C9-11 Alcohol ethoxylate		68439-46-3			1 - 10%	Acute Tox. 4: H302; Eye Dam. 1: H318;	
Oxalic Acid (Oxalic acid)		144-62-7	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: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315;	

## Further information

Product Description & Uses	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.
Product Shelf Life	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
Active Ingredients	Ingredients Oxi-Brite - Triethanolamine, Ethanedoic Acid, Less than 5% Non-ionic Surfactants, Butylene Glycol.

## 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	Harmful by inhalation. May cause irritation to respiratory system.
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## 4.2. Most important symptoms and effects, both acute and delayed

Eye contact	Harmful. Causes serious eye damage.
Skin contact	Harmful in contact with skin. May cause irritation to skin.
Ingestion	Harmful if swallowed. May cause irritation to mucous membranes.

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

Inhalation	Move the exposed person to fresh air. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Eye contact	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Skin contact	Remove contaminated clothing. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Show this safety data sheet to the doctor in attendance.

## 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

	Wear suitable respiratory equipment when necessary.
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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

	Avoid contact with eyes and skin. Do not breathe vapours or spray mist. 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.

## Suitable packaging

Plastic containers.

## SECTION 8: Exposure controls/personal protection

## 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 <sup>3</sup> total - inhalable dust: WEL 8-hr limit mg/m <sup>3</sup> total - respirable dust:	WEL 8-hr limit mg/m <sup>3</sup> : 123 WEL 15 min limit mg/m <sup>3</sup> : 101.2 WEL 15 min limit mg/m <sup>3</sup> total - inhalable dust: WEL 15 min limit mg/m <sup>3</sup> total - respirable dust:
Oxalic Acid (Oxalic acid)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m <sup>3</sup> total - inhalable dust: WEL 8-hr limit mg/m <sup>3</sup> total - respirable dust:	WEL 8-hr limit mg/m <sup>3</sup> : 1 WEL 15 min limit mg/m <sup>3</sup> : 2 WEL 15 min limit mg/m <sup>3</sup> total - inhalable dust: WEL 15 min limit mg/m <sup>3</sup> total - respirable dust:

DNEL: Derived no-effect level.

## Exposure Pattern - Workers

2-butoxyethanol	Long-term - inhalation - Systemic 98 mg/m <sup>3</sup> effects Long-term - inhalation - Local 663 mg/m <sup>3</sup> effects Long-term - dermal - Local 89 mg/kg effects	Long-term - dermal - Systemic 75 mg/kg effects
Oxalic Acid	Acute dermal - Local effects 0.69 mg/cm <sup>3</sup> Long-term - inhalation - Systemic 4.03 mg/m <sup>3</sup> effects	Long-term - dermal - Systemic 2.29 mg/kg effects

## Exposure Pattern - General population

2-butoxyethanol	Acute dermal - Local effects 13.4 mg/kg Long-term - inhalation - Systemic 49 mg/m <sup>3</sup> effects Long-term - dermal - Local 44.5 mg/kg effects	Long-term - inhalation - Local 426 mg/m <sup>3</sup> effects
Oxalic Acid	Acute dermal - Local effects 0.35 mg/m <sup>3</sup> Long-term - dermal - Systemic 1.14 mg/kg effects	Long-term - oral - Systemic effects 1.14 mg/m <sup>3</sup>

## 8.2. Exposure controls



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## 8.2. Exposure controls

Eye / face protection	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.
Skin protection - Handprotection	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields.
Respiratory protection	Rubber gloves.
8.2.3. Environmental exposure controls	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
	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 <sub>2</sub> O = 1 @ 20 °C)
Water solubility	100 g/cm <sup>3</sup>
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

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

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions. No specific reactivity hazards associated with this product.
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## 10.2. Chemical stability

	Stable under normal conditions. No particular stability concerns.
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## 10.3. Possibility of hazardous reactions

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## 10.3. Possibility of hazardous reactions

	Strong acids. Strong oxidising agents.
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## 10.4. Conditions to avoid

	Protect from frost.
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## 10.5. Incompatible materials

	No incompatible groups noted.
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## 10.6. Hazardous decomposition products

	No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.
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**SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	Not anticipated under normal conditions of use. Causes serious eye damage.
Respiratory or skin sensitisation	Not anticipated under normal conditions of use. May cause irritation to respiratory system. May cause irritation to skin.
Repeated or prolonged exposure	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Prolonged contact may cause defatting of the skin.

## 11.1.2. Mixtures

	No data available.
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## 11.1.3. Hazard Information

	No data available.
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## 11.1.4. Toxicological Information

	No data available
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**SECTION 12: Ecological information**

## 12.1. Toxicity

	No data available
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## 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

	No data is available on this product.
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## Partition coefficient

	OXI-BRITE LIQUID No data available Oxalic Acid -1.7 log P 2-butoxyethanol 0.8 log P
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## 12.4. Mobility in soil

	No data is available on this product.
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## 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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## 12.6. Other adverse effects

	No data available.
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**SECTION 13: Disposal considerations**

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## 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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## 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: 2 - Precautionary Statement: Response.
Text of risk phrases in Section 3	R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed. R21/22 - Harmful in contact with skin and if swallowed. R36/38 - Irritating to eyes and skin.

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**Other information**

<b>Text of Hazard Statements in Section 3</b>	R41 - Risk of serious damage to eyes. Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin Acute Tox. 4: H312 - Harmful in contact with skin. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled.
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**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 combination with any other materials or in any other process.
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