

SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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AQUEOUS AMMONIA 24.5%

Revision 0
Revision date 2025-05-26

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

1.1. Product identifier

Product name	AQUEOUS AMMONIA 24.5%
Other means of identification / UFI	Document Ref: ELS-SDS-8-001
	GB REACH: UK-01-9638925497-8
	REACH: 01-2119488876-14
CAS No.	1336-21-6
EC No.	215-647-6
Index No.	007-001-01-2

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

Description	Aqueous ammonia solution (24.5%) for industrial and professional use.
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1.3. Details of the supplier of the safety data sheet

Company	Blended Products Limited
Address	Elsham Wold Industrial Estate Brigg North Lincolnshire DN20 0SP
Web	www.blendedproducts.com
Telephone	+44 (0) 1652 680555
Email	enquiries@blendedproducts.com
Email address of the competent person	technical@blendedproducts.com

1.4. Emergency telephone number

Emergency telephone number	+44 (0) 1652 680555
Company	Blended Products Limited Mon - Fri 9.00am - 5.00 pm National Poisons Information Service (NPIS) NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales) – dial 111 In Northern Ireland contact your local GP Healthcare Professionals: UK NPIS 0344 892 0111 Email: sds.npis@nhs.net

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Corr. 1B: H314; Eye Dam. 1: H318; Acute Tox. 4: H332; STOT SE 3: H335; Aquatic Chronic 3: H412;
M Factor (Acute)	M-factor = 1.


2.2. Label elements

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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Acute Tox. 4: H332 - Harmful if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P312 - Call a POISON CENTER/doctor/ first aider /if you feel unwell.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved waste disposal plant (in accordance with local/regional/national/international regulation).

2.3. Other hazards

Other hazards	This product does not contain any known or suspected endocrine disruptors. This substance / mixture contains no components considered to be either persistent bioaccumulative (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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SECTION 3: Composition/information on ingredients

3.1. Substances

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH No.	Conc. (%w/w)	Classification
Ammonia solution...%	007-001-01-2	1336-21-6	215-647-6	01-2119488876-14	24.5%	Skin Corr. 1B: H314; Eye Dam. 1: H318; Acute Tox. 4: H332; STOT SE 3: H335; Aquatic Acute 1: H400; Aquatic Chronic 2: H411;

Specific Concentration Limits / M Factor

	M Factor (Acute). = 1.
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Further information

	Full text of Hazard Statements listed in this Section is provided in Section 16.
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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Avoid inhalation of vapour spray or mist. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion	DO NOT INDUCE VOMITING. If swallowed, rinse mouth with water (only if the person is conscious). If material has been swallowed and the exposed person is conscious, give small

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4.1. Description of first aid measures

	quantities of water to drink.
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4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Harmful if inhaled. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. If breathing is difficult give oxygen.
Eye contact	Causes serious eye damage. Chemical burns must be treated promptly by a physician.
Skin contact	Causes severe skin burns. Chemical burns must be treated promptly by a physician.
Ingestion	Ingestion may cause nausea and vomiting. May cause burns to mouth, throat and stomach.

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

Inhalation	If you feel unwell, seek medical advice (show the label where possible).
Eye contact	Seek medical attention. Chemical burns must be treated promptly by a physician.
Skin contact	Seek medical attention. Chemical burns must be treated promptly by a physician.
Ingestion	Seek medical attention. May cause chemical burns to mouth, throat and stomach.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Heat will increase pressure in sealed containers. Cool fire exposed containers with waterspray. Burning produces irritating, toxic and obnoxious fumes. Nitrogen oxides.
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5.3. Advice for firefighters

	Evacuate the area immediately. Wear self contained breathing apparatus and protective clothing. Avoid contact with eyes and skin.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Evacuate the area immediately. Wear suitable protective clothing and eye/face protection. Ensure adequate ventilation of the working area. Causes burns. Avoid contact with skin and eyes.
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6.2. Environmental precautions

	Prevent further spillage if safe. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections

	See section 2, 8 and 13 for further information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Wear chemical protective clothing. Wear suitable gloves and eye/face protection. Avoid inhalation of vapour spray or mist. Wear appropriate respirator when ventilation is inadequate. Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool place away from acids. Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Keep away from food, drink and animal feedingstuffs. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in
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7.2. Conditions for safe storage, including any incompatibilities

Suitable packaging	the event of spillage. Keep locked up.
	Store in original container. Store in correctly labelled containers. Do not store in unlabeled containers.

7.3. Specific end use(s)





	See section 1.2. Relevant identified uses of the substance or mixture and uses advised against for further information.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	Occupational exposure controls.
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8.2. Exposure controls

	   
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area. Work under hood. Do not inhale substance/mixture.
8.2.2. Individual protection measures	Wear suitable protective clothing.
Eye / face protection	Tightly fitting safety goggles (splash goggles) (e.g. EN 166).
Skin protection - Handprotection	Wear suitable gloves. Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of break through time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.
Skin protection - Other	Wear chemical resistant clothing. Long sleeved coverall, apron, boots. EN13034.
Respiratory protection	Wear suitable respiratory equipment when necessary. Recommended Filter type: Filter type K. Work under hood.
8.2.3. Environmental exposure controls	Avoid release to the environment.
Occupational exposure controls	Avoid prolonged or repeated exposure. Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Pungent/Ammoniacal
Odour threshold	5 ppm
pH	12.2
Melting point	-53 °C
Freezing Point	-53 °C
Initial boiling point	39 °C
Evaporation rate	No data available
Flammability (solid, gas)	Non-flammable
Upper Explosive Limit	Not determined
Lower Explosive Limit	Not determined
Vapour pressure	47000 Pa
Relative Vapour Density	< 0.0012 g/cm ³
Density / Relative Density	0.909 (H ₂ O = 1 @ 20 °C)
Fat Solubility	Not determined
Partition coefficient (P)	Not applicable.
Autoignition temperature	Not applicable.
Viscosity	1.3 mPas (Cone & Plate)
Oxidising properties	Not applicable.
Solubility	Miscible in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

9.2.1. Information with regard to physical hazard classes

	No further relevant information is available.
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9.2.2. Other safety characteristics

	No further relevant information is available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

	No specific test data related to reactivity is available for this product.
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10.2. Chemical stability

	The product is chemically stable under standard ambient conditions (room temperature) .
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10.3. Possibility of hazardous reactions

	Exothermic reaction with: Acetaldehyde, Acrolein, boron triiodide, boron trifluoride, Bromine, hydrogen bromide, Hydrogen chloride gas, chromyl chloride, dimethylsulfate, nitrogen oxides, Hydrogen fluoride, Carbon dioxide (CO ₂), mercaptans, chlorates, nitril compounds, Phosgene, Oxides of phosphorus, Acids, hydrogen sulphide, sulphur dioxide, chromium(VI) oxide, metal catalysts, Barium, halogen-halogen compounds, halogen compounds, hypochlorous acid, phosphorus hydrogen, tetra methylammonium amide, propinyl chloride.
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10.4. Conditions to avoid

	Keep away from heat and direct sunlight, avoid contact with incompatible materials.
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10.5. Incompatible materials

	Risk of ignition or formation of inflammable gases or vapours with: Boron, Boranes, Nitric acid, silicon-hydrogen. Various metals.
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10.6. Hazardous decomposition products

	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information

11.1 Information on hazard classes

Acute toxicity	Harmful by inhalation.
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	No sensitization effects reported.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
STOT-single exposure	STOT SE 3: H335 - May cause respiratory irritation.
STOT-repeated exposure	No data is available on this product.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

11.1.4. Toxicological Information

AQUEOUS AMMONIA 24.5%	Inhalation Rat LC50/4 h: 3285 ppm
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11.2 Information on other hazards

	No further relevant information is available.
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SECTION 12: Ecological information

12.1. Toxicity

AQUEOUS AMMONIA 24.5%	Daphnia EC50/48h: 101.0000 mg/l Fish LC50/96h: 0.8900 mg/l	Algae IC50/72h: 3283.2000 mg/l
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12.2. Persistence and degradability

	Readily biodegradable.
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12.3. Bioaccumulative potential

	Not expected to bioaccumulate. No known significant effects or critical hazards.
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12.4. Mobility in soil

	This product may move with surface or groundwater flows because its water solubility is : High.
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12.5. Results of PBT and vPvB assessment

	Not considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).
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12.6 Endocrine disrupting properties

	This product does not contain any known or suspected endocrine disruptors.
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12.7 Other adverse effects

	Harmful to aquatic life with long lasting effects.
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SECTION 13: Disposal considerations

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13.1. Waste treatment methods

	Dispose of in compliance with all local and national regulations.
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General information

	Contact a licensed waste disposal company.
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Disposal methods

	This material and its container must be disposed of as hazardous waste.
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Disposal of packaging

	Empty containers may retain some product residue. Empty containers can be sent for disposal or recycling.
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SECTION 14: Transport information

Hazard pictograms

	
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14.1. UN number

	UN2672
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14.2. UN proper shipping name

	AMMONIA SOLUTION (AMMONIA AQUEOUS (28% OR LESS))
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14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group	III
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14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

14.6. Special precautions for user

	Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
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14.7 Maritime Transport in bulk according to IMO instruments

	Not anticipated.
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ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B
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IATA

Packing Instruction (Cargo)	856
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IATA

Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

SECTION 15: Regulatory information

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

Regulations	<p>COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).</p> <p>COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).</p> <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>UK REACH Authorisation List (Annex XIV) list of substances subject to authorisation: Not listed.</p> <p>UK REACH Candidate List of Substances of Very High Concern for Authorisation: Not listed.</p> <p>UK REACH Restrictions List (Annex XIV) Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not listed.</p> <p>The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as amended: Not listed.</p> <p>The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/583): Not listed.</p> <p>The Prior Informed Consent (PIC) Regulations concerning the export and import of hazardous chemicals SI2008/2108 as amended: Not listed.</p> <p>Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. This product is not controlled under the Seveso Directive.</p> <p>Health and Safety at Work etc Act 1974 The Management of Health and Safety at Work Regulations 1999 Control of Substances Hazardous to Health Regulations 2002.</p>
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15.2. Chemical safety assessment

	A chemical safety assessment has not been carried out.
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SECTION 16: Other information

Other information

Acronyms	<p>ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;</p> <p>ADR - Agreement concerning the International Carriage of Dangerous Goods by Road;</p> <p>AIIC - Australian Inventory of Industrial Chemicals;</p> <p>ASTM - American Society for the Testing of Materials; bw - Body weight;</p> <p>CMR - Carcinogen, Mutagen or Reproductive Toxicant;</p>
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Other information

DIN - Standard of the German Institute for Standardisation;
 DSL - Domestic Substances List (Canada);
 ECx - Concentration associated with x% response;
 ELx - Loading rate associated with x% response;
 EmS -Emergency Schedule;
 ENCS - Existing and New Chemical Substances (Japan);
 ErCx -Concentration associated with x% growth rate response;
 GHS - Globally Harmonized System;
 GLP - Good Laboratory Practice;
 IARC - International Agency for Research on Cancer;
 IATA - International Air Transport Association;
 IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;
 IC50 - Half maximal inhibitory concentration;
 ICAO - International Civil Aviation Organization;
 IECSC - Inventory of Existing Chemical Substances in China;
 IMDG - International Maritime Dangerous Goods;
 IMO - International Maritime Organization;
 ISHL - Industrial Safety and Health Law (Japan);
 ISO - International Organisation for Standardization;
 KECI - Korea Existing Chemicals Inventory;
 LC50 - Lethal Concentration to 50 % of a test population;
 LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);
 MARPOL - International Convention for the Prevention of Pollution from Ships;
 N.O.S. -Not Otherwise Specified;
 NO(A)EC - No Observed (Adverse) Effect Concentration;
 NO(A)EL - No Observed (Adverse) Effect Level;
 NOELR - No Observable Effect Loading Rate;
 NZIoC - New Zealand Inventory of Chemicals;
 OECD - Organization for Economic Co-operation and Development;
 OPPTS - Office of Chemical Safety and Pollution Prevention;
 PBT - Persistent, Bioaccumulative and Toxic substance;
 PICCS - Philippines Inventory of Chemicals and Chemical Substances;
 (Q)SAR - (Quantitative) Structure Activity Relationship;
 REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail;
 SADT - Self-Accelerating Decomposition Temperature;
 SDS -Safety Data Sheet;
 TCSI - Taiwan Chemical Substance Inventory;
 TECI - Thailand Existing Chemicals Inventory;
 TSCA - Toxic Substances Control Act (United States);
 UN - United Nations;
 UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;
 vPvB - Very Persistent and Very Bioaccumulative.

Text of Hazard Statements in Section 3

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
 Eye Dam. 1: H318 - Causes serious eye damage.
 Acute Tox. 4: H332 - Harmful if inhaled.
 STOT SE 3: H335 - May cause respiratory irritation.
 Aquatic Acute 1: H400 - Very toxic to aquatic life.
 Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
 Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Further information

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Blended Products Limited gives no warranty as to the

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Further information

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