SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

ALKALI BOOST

Revision 10

Revision date 2011-12-15

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

1.1. Product identifier

Product name	ALKALI BOOST

1.3. Details of the supplier of the safety data sheet

Company	Merlin Chemicals Ltd
Address	Unit 5, Passfield Mill Business Park, Liphook, Hants. GU30 7RR. United Kingdom
Web	www.merlinchemicals.co.uk
Telephone	+44 (0)1428 751122
Fax	+44 (0)1428 751133
Email	technical@merlinchemicals.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	C; R35 Symbols: C: Corrosive.
Main hazards	Causes severe burns.

2.2. Label elements

Symbols	C: Corrosive. 
Risk phrases	R35 - Causes severe burns.
Safety phrases	S1/2 - Keep locked up and out of the reach of children. S13 - Keep away from food, drink and animal feedingstuffs. S25 - Avoid contact with eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 - After contact with skin, wash immediately with plenty of water. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46 - If swallowed, seek medical advice immediately and show this container or label.

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
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5			C; R35
trisodium nitrilotriacetate	607-620-00-6	5064-31-3	225-768-6			Carc. Cat. 3; R40 Xn; R22 Xi; R36

ALKALI BOOST

3.2. Mixtures

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Irritating to respiratory system. Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

	Wear:. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Wear suitable protective equipment.

6.2. Environmental precautions

	Prevent further spillage if safe. Do not allow product to enter drains. Do not flush into surface water. Advise local authorities if large spills cannot be contained.

6.3. Methods and material for containment and cleaning up

	Contain with sand or granules.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

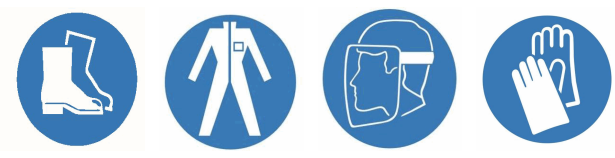
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Sodium hydroxide	**WEL 8-hr limit ppm:** -	**WEL 8-hr limit mg/m3:** -
	WEL 15 min limit ppm: -	**WEL 15 min limit mg/m3:** 2

8.2. Exposure controls



ALKALI BOOST

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Adopt best Manual Handling considerations when handling, carrying and dispensing.
Eye / face protection	Face shield.
Skin protection - Handprotection	Rubber gloves.
Respiratory protection	Wear suitable respiratory equipment when necessary.
8.2.3. Environmental exposure controls	Users should be aware of environmental considerations and their duties under the Environmental Protection Act.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Clear
Odour	Characteristic
pH	>13
Melting point	0
Boiling point	105
Relative density	1.190 - 1.210

Water solubility

Soluble.

SECTION 10: Stability and reactivity

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Acids, aluminium and zinc.

10.6. Hazardous decomposition products

Evolves hydrogen in contact with aluminium and zinc. Can react violently with acids and chlorinated hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Ingestion may result in perforation of digestive tract, haemorrhage and severe burns to mouth and throat. Inhalation may result in severe burns to the respiratory tract. Eye contact may result in severe burns causing permanent eye damage. Skin contact may result in severe burns with permanent skin damage which are slow to heal.

SECTION 12: Ecological information

12.2. Persistence and degradability

Can cause long term adverse effects for the aquatic environment. High pH values and sodium content has a potential to damage soil structure.

12.4. Mobility in soil

Miscible in water.

Further information

Highly toxic to aquatic organisms due to high pH.

SECTION 13: Disposal considerations

General information

ALKALI BOOST

Revision 10
Revision date 2011-12-15

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

SECTION 14: Transport information

Hazard pictograms

14.1. UN number

	UN3266

14.2. UN proper shipping name

	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (CONTAINS SODIUM HYDROXIDE)

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	II

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B

IATA

Packing Instruction (Cargo)	855
Maximum quantity	30 L
Packing Instruction (Passenger)	851
Maximum quantity	1 L

SECTION 15: Regulatory information

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

	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.

SECTION 16: Other information

Other information

ALKALI BOOST

Other information

Text of risk phrases in Section 3	R22 - Harmful if swallowed. R35 - Causes severe burns. R36 - Irritating to eyes. R40 - Limited evidence of a carcinogenic effect.

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. This version replaces all previous versions.