SAFETY DATA SHEET
GLOBAL METASPRAY 3
Current 18.11.2003

SAFETY DATA SHEET Ref No. 10196

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	GLOBAL METASPRAY 3
Description	A blend of alkaline builders, sequestering agents and detergents.
Manufacturer/Supplier	Global Lubricants Ltd
Address	7 Sandwell Business Development Centre Oldbury Rd , Smethwick, West Midlands B66 1NN, England
Phone Number	+44 (0)121 544 3638
Fax Number	+44 (0)121 544 6505
Emergency Phone Number	+44 (0)7710 754 382

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Preparation - Hazardous Components

Component	Min%	Max%	EEC Classification
1) Sodium metasilicate CAS 6834-92-0 ENECS 229-912-9	1.00	5.00	[C]R34 [Xi] R37
2) Potassium hydroxide CAS 1310-58-3 ENECS 215-181-3	1.00	5.00	[C]R35 [Xn] R22
3) 2,2-Iminodiethanol CAS 111-42-2 ENECS 203-868-0	1.00	5.00	[Xi]R38 [Xn]R22 [Xn]R48/22[Xi]R41

3. HAZARD IDENTIFICATION

Main Hazards	Concentrated product - Causes burns.
Health Effects - Eyes	Concentrated product - Liquid will cause severe conjunctival irritation and corneal damage. Serious damage may result if treatment is delayed.
Health Effects - Skin	Concentrated product - Material will cause chemical burns.
Health Effects - Ingestion	Concentrated product - Swallowing may have the following effects:- corrosion of mouth, throat and digestive tract.
Health Effects - Inhalation	Exposure to vapour at high concentrations may have the following effects:- irritation of nose, throat and respiratory tract. Exposures during normal handling and use are likely to be well below those that would be expected to produce the above effects.

4. FIRST AID MEASURES

First Aid - Eyes	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.
First Aid - Skin	Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing as washing proceeds. Continue washing for at least 10 minutes. Obtain medical attention if blistering occurs or redness persists. Contaminated clothing should be washed or dry-cleaned before re-use.
First Aid - Ingestion	Wash out mouth with water. Do not induce vomiting. Obtain medical attention urgently.
First Aid - Inhalation	Remove from exposure.
Advice to Physicians	In case of eye contact immediate referral for ophthalmological opinion is advised.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical, water-jet or carbon dioxide.
Special Hazards of Product	This product may give rise to hazardous fumes in a fire.
Protective Equipment for Fire-Fighting	Wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ventilate the area. Wear appropriate protective clothing.
Environmental Precautions	Try to prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.
Spillages	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Finally flush area with plenty of water.

7. HANDLING AND STORAGE

Handling	Use only at the dilution specified. See label or technical data sheet. Use in well ventilated area. Avoid contact with eyes, skin and clothing.
Storage	Storage temperature should be controlled to between 1 and 30 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control Measures	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
Respiratory Protection	Respiratory protection not normally required.
Hand Protection	Concentrated product - Full length gloves must be worn during all handling operations.
Eye Protection	Chemical goggles.
Body Protection	Normal work wear.
Protection During Application	During application, flames and unsealed lights must be extinguished and adequate ventilation must be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	Colourless.
Odour	Characteristic.
pH	Concentrated product - 13.5 Approx. 12 at 1% w/w in water.
Boiling Range/Point (°C)	Approx. 100
Flash Point (PMCC) (°C)	None.
Solubility in Water	Soluble.
Density (kg/m^3)	1.08. (measured as kg/litre)
Auto-flammability (°C)	Above 100.
Viscosity (cSt)	Mobile liquid at ambient temperatures.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	High temperatures.
Materials to Avoid	Strong oxidising agents. Strong acids. Aluminium. Zinc. Fine powders of light metals and their alloys such as Al, Mg, Zn. Ti, etc.
Hazardous Decomposition Products	After evaporation of water, combustion will generate: oxides of nitrogen. oxides of sulphur. formaldehyde.

11. TOXICOLOGICAL INFORMATION

Ingredient 2	
Potassium hydroxide	ORL RAT LD50 273mg/kg
Ingredient 3	
2,2-Iminodiethanol	ORL RAT LD50 620 µl/kg IVN RAT LD50 778 mg/kg ORL MUS LD50 33300 mg/kg SCU RAT LD50 2200 mg/kg

12. ECOLOGICAL INFORMATION

Mobility	The product will leach into soil. The product is involatile and water soluble and will partition to the aqueous phase.
Persistence/ Degradability	The product is expected to be biodegradation.
Bioaccumulation Potential	No bioaccumulation potential
Other adverse effects	Negligible ecotoxicity

13. DISPOSAL

Product Disposal	Dispose of in accordance with all applicable local and national regulations.
Container Disposal	Empty containers may contain hazardous residues. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Labels should not be removed from containers until they have been cleaned.

14. TRANSPORT INFORMATION

UN Number	3266
UN Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide solution.)
UN Class	8
UN Packaging Group	II
ADR/RID - Description	Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide)
ADR/RID - Class	8
ADR/RID - Item No.	42(b)
IMDG - Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide solution.)
IMDG - Packaging Group	II
IMDG - Class	8
IMDG - Marine Pollutant	No.
IMDG - Ems Number	8-06
IMDG - MFAG Table Number	705
IATA - Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide solution.)
IATA - Packaging Group	II
IATA - Class	8
Tremcard No. TEC(R)	52

15. REGULATORY INFORMATION

Hazard symbols	Corrosive
Risk phrases	R34 Causes burns

Safety phrases	S2 Keep out of the reach of children S24/25 Avoid contact with skin & eyes S36/37/39 Wear suitable protective clothing Gloves and eye/face protection S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S28After contact with skin, wash immediately with plenty of water S46 If swallowed, seek medical advice immediately and show this container label

16. OTHER INFORMATION

Risk phrases used in s.2	R34 Causes burns R37 Irritating to respiratory system R22 Harmful if swallowed R35 Causes severe burns
MSDS first issued	18.06.2003
MSDS data revised	
Product Use	For industrial use only, Cleaning Fluid.

17. NATIONAL LEGISLATION

EC Legislation	EC Directive 91/155/EEC defining the laying down and detailed arrangements for the system of specific information relating to dangerous preparations. EC Directive 88/379/EEC relating to the classification, packaging and labelling of dangerous preparations.
UK Guidance Publications	EH40, Occupational Exposure Limits, HSE. Revised Annually.

Legal disclaimer

The above information is believed to be correct but does not purport to be all Inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product