

SAFETY DATA SHEET
GLOBAL BIOCARE
Current 18.06.1998

SAFETY DATA SHEET Ref No. 10048

1. PRODUCT AND COMPANY IDENTIFICATION

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|------------------------|-----------------------------------------------------------------------------------------------------|
| Trade Name | GLOBAL BIOCARE |
| 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 |
| Sodium hydroxide | 1.00 | 5.00 | Corrosive R35 |

3. HAZARD IDENTIFICATION

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| 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
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| 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
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| Extinguishing Media | Use foam, dry chemical or carbon dioxide. |
| Unsuitable Extinguishing Media | Do not use water jet. |
| 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
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| 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
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| 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

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| 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

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| Physical State | Liquid. |
| Colour | Yellow. |
| Odour | Characteristic. |
| pH | Concentrated product - 14 Approx. 12 at 1% w/w in water. |
| Boiling Range/Point (°C) | Approx. 100 |
| Flash Point (PMCC) (°C) | Exceeds 100. |
| Solubility in Water | Miscible. |
| 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

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| 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

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| Irritancy - Skin | This material is corrosive to the skin. |
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16. OTHER INFORMATION

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| MSDS first issued | 18.06.98 |
| MSDS data revised | |
| Product Use | For industrial use only. System cleaner for water mix metal working fluids. |

17. NATIONAL LEGISLATION

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| 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. |
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| UK Guidance Publications | EH40, Occupational Exposure Limits, HSE. Revised Annually. |
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