

**SAFETY DATA SHEET**  
**GLOBAL PENATROL SPRAY**  
**10021 1.00 20/11/97**

SAFETY DATA SHEET Ref No. 10021

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Trade Name</b>	<b>PENATROL SPRAY</b>
<b>Manufacturer/Supplier</b>	Global Lubricants Limited
<b>Address</b>	7 Sandwell Business Development Centre, Oldbury Rd, Smethwick, West Midlands, B66 1NN, England
<b>Phone Number</b>	+44 (0) 121 544 3638
<b>Fax Number</b>	+44 (0) 121 544 3638
<b>Emergency Phone Number</b>	+44 (0) 410 754382

**2. COMPOSITION/INFORMATION ON THE COMPONENTS**

<b>Preparation - Hazardous Components</b>	<b>Min%</b>	<b>Max%</b>	<b>EEC Classification</b>
<b>Component:</b>			
1. Propane	2.50	10.00	F+
2. Butane/Isobutane	2.50	10.00	F+
3. Cyclohexane	1.00	2.50	Xn

**3. HAZARD IDENTIFICATION**

<b>Main Hazards</b>	Extremely Flammable.
<b>Health Effects - Eyes</b>	Liquid may cause slight transient irritation.
<b>Health Effects - Skin</b>	Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
<b>Health Effects Ingestion -</b>	Swallowing may have the following effects:- nausea. drowsiness.
<b>Health Effects - Inhalation</b>	Exposure to vapour at high concentrations may have the following effects:- drowsiness.

**4. FIRST AID MEASURES**

<b>First Aid - Eyes</b>	Wash out eye with plenty of water. Obtain medical attention if soreness or redness persists.
<b>First Aid - Skin</b>	Wash skin with soap and water. Apply a reconditioning skin cream.
<b>First Aid - Ingestion</b>	Do not induce vomiting. Obtain medical attention.
<b>First Aid - Inhalation</b>	Remove from exposure. Seek medical attention if you feel unwell.

## **5. FIRE FIGHTING MEASURES**

Use foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray. Do not use water jet. Containers may explode in heat of fire. This product may give rise to hazardous fumes in a fire. Wear self contained breathing apparatus.

## **6. ACCIDENTAL RELEASE MEASURES**

Eliminate all sources of ignition. Ventilate the area. Wear appropriate protective clothing. Material can create slippery conditions underfoot. Try to prevent the material from entering drains or water courses. Allow to evaporate if it is safe to do so or contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

## **7. HANDLING AND STORAGE**

<b>Handling</b>	Use in well ventilated area.
<b>Storage</b>	Storage area should be out of direct sunlight. Storage temperature should be kept between 5 and 30 °C.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Occupational Exposure Standards:-</b>	OES 8hr ppm	OES 15min ppm
Butane	600.00	750.00
Cyclohexanone	25.00	100.00

<b>Engineering Control Measures</b>	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.
-------------------------------------	--

<b>Respiratory Protection</b>	Respiratory protection if there is a risk of exposure above OEL's.
-------------------------------	--

<b>Hand Protection</b>	Use a good quality barrier cream before use.
------------------------	--

<b>Eye Protection</b>	Chemical goggles if there is a risk of eye contact.
-----------------------	---

<b>Body Protection</b>	Normal work wear.
------------------------	-------------------

<b>Protection During Application</b>	During application, adequate ventilation must be provided.
--------------------------------------	--

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid.
<b>Colour</b>	Grey.
<b>Odour</b>	Characteristic.
<b>Boiling Range/Point (°C)</b>	195
<b>Flash Point (Abel) (°C)</b>	40
<b>Explosion Limits (%)</b>	0.9 to 8.0.(based on major component)
<b>Solubility in Water</b>	Insoluble
<b>Vapour Density</b>	Heavier than air
<b>Density (kg/m<sup>3</sup>)</b>	0.83. (measured as kg/litre)
<b>Auto-flammability (°C)</b>	Above 200.
<b>Viscosity (cSt)</b>	Mobile liquid at ambient temperatures
<b>Evaporation Rate</b> (referenced as n-butyl acetate =1)	<0.1

## **10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Exposure to direct sunlight. Temperatures in excess of 50 °C.
<b>Materials to Avoid</b>	Strong oxidising agents, strongly acidic and alkaline materials.
<b>Hazardous Products</b>	Decomposition Combustion will generate: smoke, possibly thick and choking, resulting in zero visibility. Combustion may also generate: oxides of sulphur.

## **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity	Low order of acute toxicity.
----------------	------------------------------

## **12. ECOLOGICAL INFORMATION**

<b>Mobility</b>	The product is insoluble in water. If released to water the product will float. The product will leach into soil.
<b>Persistence/ Degradability</b>	The product is expected to be resistant to biodegradation.
<b>Bio-accumulation</b>	Product is not expected to Bio-accumulate.

## **13. DISPOSAL**

<b>Container Disposal</b>	Plastic caps and empty aerosols may be recycled via appropriate routes. Empty aerosols may be disposed of by authorised landfill. Do not incinerate closed containers.
---------------------------	--

#### **14. TRANSPORT INFORMATION**

<b>UN Number</b>	1950
<b>UN Proper Shipping Name</b>	Aerosols, flammable, n.o.s.
<b>UN Class</b>	2.1
<b>UN Packaging Group</b>	II
<b>ADR/RID Substance</b>	1950
<b>Identification Number</b>	
<b>ADR/RID - Description</b>	Aerosols.
<b>ADR/RID - Class</b>	2
<b>ADR/RID - Item No.</b>	10(b)2
<b>IMDG - Proper Shipping Name</b>	Aerosol Dispensers.
<b>IMDG - Packaging Group</b>	II
<b>IMDG - Class</b>	9
<b>IMDG - Marine Pollutant</b>	No.
<b>IMDG - Ems Number</b>	2-13
<b>IMDG - MFAG Table Number</b>	260
<b>IATA - Proper Shipping Name</b>	Aerosols, flammable, n.o.s.
<b>IATA - Packaging Group</b>	II
<b>IATA - Class</b>	2.1
<b>Tremcard No.</b>	TEC(R) 20G26

#### **15. REGULATORY INFORMATION**

	Classification F+ Extremely Flammable
<b>R phrases</b>	12 Extremely Flammable
<b>S phrases</b>	2 Keep out of reach of children 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 46 If swallowed seek medical advice immediately and show this information or container label. 16 Keep away from sources of ignition- No smoking do not breathe vapour or spray.

#### **16. OTHER INFORMATION**

<b>Product Use</b>	For industrial use only. Lubricant for release of seized components.
<b>MSDS first issued</b>	20/11/97
<b>MSDS data revised</b>	

#### **17. NATIONAL LEGISLATION**

<b>EC Legislation</b>	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. EC Directive 94/1/EC adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of Member States relating to aerosol dispensers.
-----------------------	--