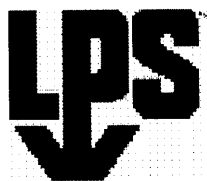


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SAFETY DATA SHEET

LPS 3 HEAVY-DUTY RUST INHIBITOR (BULK/LIQUID)

25056 2.00 GB EN 23.02.2000 MSDS.EN

SAFETY DATA SHEET Ref. No. 25056

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	LPS 3 HEAVY-DUTY RUST INHIBITOR (BULK/LIQUID)
Manufacturer/Supplier	ROCOL Lubricants
Address	ROCOL House, Swillington, Leeds, LS26 8BS, ENGLAND
Phone Number	+44 (0) 113 2322700
Fax Number	+44 (0) 113 2322760
Emergency Phone Number	+44 (0) 113 2322600

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Hazardous Components in Product for EC

Component Name	Codes	Concentration	R Phrases	Classification
SEVERELY REFINED MINERAL OIL	064742-52-5	10.00 - 15.00	R10, R65	
ALIPHATIC HYDROCARBON (<0.1% w/w BENZENE)	064742-88-7	70.00 - 80.00	R10, R65	F, Xn, N
DIPROPYLENE GLYCOL METHYL ETHER	034590-94-8	2.00 - 5.00	R36/38	Xi
R10	R10 Flammable.			
R36/38	R36/38 Irritating to eyes and skin.			
R65	R65 Harmful: may cause lung damage if swallowed.			
F	F - Highly flammable			
N	N - Dangerous to the Environment			
Xi	Xi - Irritant			
Xn	Xn - Harmful			

3. HAZARD IDENTIFICATION

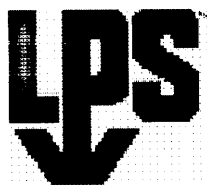
Main Hazards	R10 Flammable.
Health Effects - Eyes	Liquid may cause slight transient irritation.
Health Effects - Skin	Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
Health Effects - Ingestion	Swallowing may have the following effects:- nausea.
Health Effects - Inhalation	Exposure to vapour at high concentrations may have the following effects:- nausea. drowsiness.

4. FIRST AID MEASURES

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

5. FIRE FIGHTING MEASURES

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.



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all sources of ignition. Ventilate the area. Material can create slippery conditions underfoot.
Environmental Precautions Spillages	Try to prevent the material from entering drains or water courses. Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling	Use in well ventilated area.
Storage	Storage temperature should be controlled to between 1 and 40 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

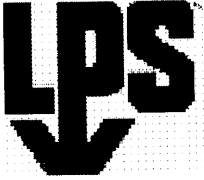
Occupational Exposure Standards SEVERELY REFINED MINERAL OIL	UK EH40: OES 5mg/m ³ 8h TWA. UK EH40: OES 10mg/m ³ 15min TWA.
ALIPHATIC HYDROCARBON (<0.1% w/w BENZENE)	An exposure limit of 300ppm (1330mg/m ³) 8h TWA is recommended.
DIPROPYLENE GLYCOL METHYL ETHER	An exposure limit of 100ppm is recommended.
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 if there is a risk of exposure to high vapour concentrations.
Hand Protection	PVC or rubber gloves.
Eye Protection	Chemical goggles if there is a risk of splashing.
Body Protection	Normal work wear.
Protection During Application	During application, adequate ventilation must be provided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	Brown.
Odour	Fruity.
Boiling Range/Point (°C)	149
Flash Point (PMCC) (°C)	45
Explosion Limits (%)	0.7 to 6. (based on major component)
Solubility in Water (kg/m ³)	Insoluble.
Vapour Pressure (mm.Hg./20 °C)	<5
Density (kg/m ³)	0.83. (measured as kg/litre)
Viscosity (cSt)	Mobile liquid at ambient temperatures.
Vapour Density (Air = 1)	Heavier than air.
Evaporation Rate	0.12 (referenced as n-butyl acetate = 1)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	High temperatures.
Materials to Avoid	Strong oxidising agents.
Hazardous Decomposition Products	Combustion will generate: smoke, possibly thick and choking, resulting in zero visibility.



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16. OTHER INFORMATION

MSDS data revised

23 February 2000

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.
 CHIP 97 Guidance on Regulations (ISBN 0-7176-1366-6) page 12 - reference application of the aspiration hazard (R65) to preparations.

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.
