

# RYE OIL PRODUCT SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

PRODUCT NAME : **RYE MULTI GREASE 1,2,3, E.P & MOS2 GREASE.**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Solvent refined paraffinic mineral oils thickened with lithium soaps and containing anti-wear, anti-corrosion and anti-oxidant additives.

Substance Name	Form	Limit	Concentration
Highly refined mineral oil	Oil mist	OES 5 mg/m <sup>3</sup> Per 8 HR	91-98%

## 3. HAZARDS IDENTIFICATION

Most Important Hazards : When applied by grease guns or dispensers CARE SHOULD BE TAKEN TO AVOID INJECTING GREASE UNDER THE SKIN.

Health Effects : Repeated or prolonged skin contact may lead to defatting of the skin, erythema, dermatitis or oil acne.

Environmental Effects : Environment - low bioaccumulativity but not readily biodegradable.

Further Information - Hazards : This product contains petroleum base oils which have been refined by severe solvent extraction.

The oils are not listed as possible carcinogens in the Health and Safety Executive guidance note EHS8 on the carcinogenicity of minerals oils.

## 4. FIRST AID MEASURES

Inhalation : If inhalation of fumes irritates the nose, throat or causes coughing remove to fresh air. Get medical advice if irritation continues.

Skin Contact : Wash skin immediately with soap and water. Do not use solvents or thinners. Remove heavily contaminated clothing and launder before reuse. Seek medical attention if irritation develops. GET IMMEDIATE MEDICAL ADVICE IF GREASE IS INJECTED UNDER THE SKIN.

Eye Contact : Flush eyes immediately with water for at least 15 minutes.

Ingestion : Get medical advice if adverse eye effects follow. DO NOT INDUCE VOMITING because of the dangers of aspiration. Wash mouth out with water. Get medical advice if adverse effects follow.

## 5. FIRE-FIGHTING MEASURES

- Extinguishing Media : Use foam, dry powder or water mist.  
For small fires use Carbon Dioxide.
- Unsuitable Media : DO NOT USE DIRECT WATER JET
- Specific Hazards : With incomplete combustion: Carbon monoxide and soot.  
With complete combustion hydrogen chloride and oxides of carbon are likely to be formed.
- Specific Methods : Fires should only be tackled by trained personnel.  
Self-contained breathing apparatus should be worn when tackling fires in confined spaces.  
Use water mist to keep fire-exposed containers cool.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions : Prevent skin and eye contact. Remove ignition sources and ensure sufficient ventilation.  
The product may damage tarmacadam and make surfaces slippery.
- Environmental Precautions : Do not wash into drainage systems and prevent entry into sewers and waterways.
- Methods of Cleaning Up : Dispose of in accordance with current waste disposal regulations.  
Either scrape up or use absorbent material e.g. sand, sawdust.

## 7. HANDLING AND STORAGE

- Technical Measures : CAUTION: Do not use pressure to empty drum or drum may rupture with explosive force.
- Handling Precautions : Do not wear contaminated clothing. Launder before reuse.  
Care should be taken to avoid injecting grease under the skin. Avoid unnecessary contact. Wash hands thoroughly after handling.
- Storage Conditions : Keep containers tightly closed. Lie on side to minimize ingress of water. Store drums under cover in racking protected from mechanical impact.
- Packaging Materials recycling. : Undamaged empty 205 litre drums should be sealed and returned for recycling.  
All other containers should be disposed of in accordance with the Environmental Protection (Duty of Care) Regulations 1991.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Methods : The Occupational Exposure Standard (OES) for Mineral Oil Mist, listed in Table 2 of the Health and Safety Executive Guidance Note EH 40 "Occupational Exposure Limits", is as follows:  
 Long term exposure limit : 5mg/m<sup>3</sup> (8 hour TWA Reference Period) Short term exposure limit: 10mg/m<sup>3</sup> (15 minute Reference Period)
- Respiratory Equipment : Respiratory protective equipment is not required.  
 Ensure adequate ventilation.
- Hand Protection : If frequent or continuous contact is likely protective gloves (nitrile rubber or neoprene) should be worn.
- Eye Protection : If possibility of splashing occurs, safety glasses or goggles should be worn.
- Skin and Body Protection : If frequent or continuous contact is likely protective clothing such as protective boots or an apron should be worn. Any contaminated clothing should be laundered before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Grade	multi 1	multi 2	multi 3	EP 00	EP0	EP2
Appearance and Colour			Green/Brown			
Form			Grease			
Worked Penetration	310/340	265/295	220/250	400/430	355/385	265/295
Drop Point Deg C	185	185	185	N/A	N/A	180

**10. STABILITY AND REACTIVITY**

- Stability : Rye greases are stable products under normal operating conditions.
- Materials to Avoid : water, oxidising agents such as chlorates, nitrates, peroxides.
- Hazardous Decomposition Products : Decomposition unlikely in normal conditions, but at excessively high temperatures decomposition may occur evolving hydrogen chloride .

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICOLOGY

- Inhalation - Tox : No inhalation hazard associated in normal operations. If vapours are generated from heating, exposure may cause irritation to the breathing passages and lungs.
- Skin Contact - Tox : Unlikely to cause irritation on brief or occasional contact; prolonged, repeated and heavy direct contact may lead to defatting of the skin, erythema, dermatitis, oil acne.
- Eye Contact - Tox : May cause minor irritation if splashed into the eye with short-term redness and stinging.
- Ingestion - Tox : Unlikely to have any effects if small amounts are swallowed; larger amounts may cause nausea and diarrhoea.

## 12. ECOLOGICAL INFORMATION

- Mobility : This grease is composed of mineral oils thickened with soaps to form a soft solid. The grease is therefore not easily mobile.
- Biological Accumulations : Grease residues are unlikely to contaminate soil organisms as the grease will persist on the soil surface rather than seep below. Bioaccumulation of grease constituents in the tissues of organisms will tend to be low due to low solubility.
- Further Information - Eco : Since the grease will not spread, it is unlikely to physically foul or smother aquatic organisms, birds or marine animals.  
Grease will biodegrade very slowly due to the solid nature of the product. Any test data performed on biodegradability is likely to be invalid due to the variable size of grease deposits and the degree of surface area exposed.

## 13. DISPOSAL CONSIDERATIONS

- Disposal of Packaging : Place used and contaminated materials/packaging in suitable containers.

## 14. TRANSPORT INFORMATION

- Surface Transport : Non-hazardous (Lubricating Grease).  
HAZCHEM                      ADRIRID                      IMDG                      ICAO                      UN  
3Z

## 15. REGULATORY INFORMATION

All information contained in this data sheet is in accordance with the following Directives/Regulations and their amendments:

Chemicals (Hazard Information and Packing) Regulations (1993)  
Health and Safety at Work Act (1974)  
Control of Substances Hazardous to Health Regulations (1993)  
Waste Disposal-Environmental Protection (Duty of Care) Regulations (1991)

Classification : This product is not classified as hazardous and therefore does not require a label for classification, risk or safety phrases according to the Chemicals (Hazard Information and Packaging) Regulations.

## **16. OTHER INFORMATION**

Intended Uses : A lithium base multipurpose extreme pressure grease for use in the temperature range -30 to +110 Deg C.

### **NOTICE TO USERS**

For additional information on health and safety aspects related to the use of this product contact RYE OIL LTD.

The data and advice given in this Material Safety Data Sheet apply only when the product is used for the stated application or applications. The product is not sold as suitable for any other application. When used incorrectly, or when used for applications other than as stated in this Data Sheet, risks not mentioned in this Data Sheet may arise.

If you have purchased the product for supply to a third party, it is your duty to pass to that third party the information given in this Data Sheet.

If the third party is not an employer it is his duty to pass the information, given in this Data Sheet, to the employer of whoever uses or handles the product.

It is an employer's duty to advise and instruct his employees handling the product (and others who may be affected) of any hazards described in the Data Sheet and of any precautions which should be taken to ensure safe handling of the product.