

RYE OIL PRODUCT SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

PRODUCT NAME : **RYE SLIDEWAY 68 and 220**

2. COMPOSITION/INFORMATION ON INGREDIENTS

A blend of highly refined mineral oils and multifunctional additives.

Substance Name	Form	Limit	Concentration
HIGHLY REFINED MINERAL OIL	OIL MIST	OES 5 mg/m ³ Per 8 HR	98%

3. HAZARDS IDENTIFICATION

Health Effects	: Repeated skin contact can lead to defatting of the skin, erythema, dermatitis or oil acne.
Environmental Effects	: Environment - bioaccumulative and 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 EH58 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.
Eye Contact	: Flush eyes immediately with water for at least 15 minutes. Get medical advice if adverse eye effects follow.
Ingestion	: DO NOT INDUCE VOMITING because of the dangers of aspiration. Wash mouth out with water. Get medical advice if adverse effects follow.

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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: 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. Prevent leakage onto soil.
Methods of Cleaning Up	: Use absorbent material e.g. sand, sawdust, active clay. Dispose of in accordance with current waste disposal regulations.

7. HANDLING AND STORAGE

Technical Measures	: CAUTION: Do not use pressure to empty drum or drum may rupture with explosive force.
Handling Precautions	: Avoid unnecessary contact. Wash hands thoroughly after handling. Avoid inhalation of vapours, mists or fumes by provision of local ventilation systems. Do not wear contaminated clothing. Launder before reuse
Storage Conditions	: Keep containers tightly closed. Lie on side to minimise ingress of water. Store drums under cover in racking protected from mechanical impact.
Packaging Materials	: 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 : Smg/m3 (8 hour TWA Reference Period) Short term exposure limit: 10mg/m3 (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

	<u>ISO 68</u>	<u>ISO 220</u>
Appearance and Colour	: Light amber mineral oil	
Form	: Liquid	
Flash Point Deg C (PMC)	: 234	240
Relative Density @ 15 deg C	: 0.87	0.90
Viscosity at 40 Deg C mm2/s	: 61.2 - 74.8	198 - 242

10. STABILITY AND REACTIVITY

Stability	: Rye slideway oil is a stable product under normal operating conditions.
Materials to Avoid	: Water, oxidising agents such as chlorates, nitrates, peroxides.
Hazardous Decomposition Products	: No hazardous products are evolved on decomposition.

11. TOXICOLOGICAL INFORMATION ACUTE TOXICOLOGY

Inhalation - Tox	: No inhalation hazard associated in normal operations.
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- 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

- Biological Accumulations : Oil residues may contaminate soil preventing oxygen and water passing through the soil thus suffocating soil organisms.
Many oil product constituents are capable of dissolving in body fats and may bioaccumulate in the tissues of organisms.
- Further Information - Eco : Oil products may harm aquatic organisms by physical fouling or smothering, or by forming a blanket on water disrupting the oxygen supply on which many organisms depend.
Oil contamination can also foul and smother birds and marine animals.
Aquatic toxicity to goldfish: LCO = 10 g/l (Testing difficult due to low solubility of the product).
Biodegradability: 50% over 21 days (CEC-L-33-T-82 test).

13. DISPOSAL CONSIDERATIONS

- Disposal of Packaging : Place used and contaminated materials/packaging in suitable containers.
Dispose of the controlled waste in accordance with Duty of Care Regulations (Environmental Protection Act 1990 - Section 34(7)) using a licensed waste disposal company who may pay for the oil.

14. TRANSPORT INFORMATION

- Surface Transport : Non-hazardous (Lubricating Oil).

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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 : General lubrication of slideways of lathes and other equipment.

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.