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Valve Grinding Compound

Oil Mix

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MATERIAL SAFETY DATA SHEET

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1. IDENTIFICATION OF PRODUCT

Valve Grinding Compound – Oil Mix

Application

Grinding (lapping) of 4 stroke engine Cylinder Head Valves.

Not hazardous according to criteria of Worksafe Australia.

This MSDS consists of 5 pages. Please contact your Redi-Brite representative for any additional copies.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Composition

A blend of severely solvent refined mineral oil, soap thickener, and proprietary performance additives together with synthetic abrasive particles.

Hazardous Components

No component is present at sufficient concentration to require a hazardous classification.

3. HAZARDS IDENTIFICATION

This material is not considered to be hazardous to health, but should be handled in accordance with good industrial hygiene and safety practices.

Please Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.

See "Medical Advice" under First Aid Measures, Section 4 of this Material Safety Sheet.

4. FIRST-AID MEASURES

Eyes

Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.

Skin

Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.

Medical advice must be obtained urgently if product under pressure has been injected through the skin.

Ingestion

If contamination of the mouth occurs, wash out thoroughly with water.

Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.

Inhalation

Product used at the temperature for which the product is formulated does not fume. If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

Medical Advice

Treatment should in general be symptomatic and directed to relieving any effects.

Note: High Pressure Applications

Injections through the skin from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to reduce tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along the tissue planes.

5. FIRE-FIGHTING MEASURES

Use foam, dry powder or water fog. DO NOT USE water jets.

FIRES IN CONFINED SPACES SHOULD BE DEALT WITH BY TRAINED PERSONNEL WEARING APPROVED BREATHING APPARATUS.

Water may be used to cool nearby heat exposed areas/objects/packages. Avoid spraying directly into storage containers because of the danger of boil-over.

Combustion Products

Toxic fumes may be evolved on burning or exposure to heat.

See stability and Reactivity, Section 10 of this Material Safety Data Sheet.

6. ACCIDENTAL RELEASE MEASURES

Scrape up bulk of material and remove the remainder with sand or other suitable inert material. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.

Spilled material may make surfaces slippery.

Protect drains from potential spills to minimise contamination. Do not wash product into drainage system. In the case of large spills contact the appropriate authorities.

In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.

7. HANDLING AND STORAGE

Handling Precautions

Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets.

The use of a recommended barrier cream on the hands before commencing work may be helpful in assisting subsequent removal of any product accidentally contaminating the skin. After washing the application of a suitable conditioning cream may help to prevent cracking, fissuring or dryness of the skin.

Fire Prevention

Product soaked rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.

Storage Conditions

Keep out of reach of children.

Store under cover away from heat and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Ensure good ventilation. Avoid, as far as reasonably practicable, inhalation of vapour, mists or fumes generated during use. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level. Worksafe Australia recommend an exposure standard of 5 mg/m³ for oil mist for an 8 hour time weighted average (TWA).

Protective Clothing

Wear face visor or goggles in circumstances where eye contact can accidentally occur. Change heavily contaminated clothing as soon as reasonably practicable and launder before re-use. Wash any contaminated underlying skin with soap and water.

If skin contact is likely, wear impervious protective clothing and/or gloves.

Respiratory Protection

Respiratory protection is unnecessary, provided the concentration of vapour, mists or fumes is adequately controlled.

The use of respiratory equipment must be strictly in accordance with the manufacturers' requirements governing its selection and use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical Values

Grades: Fine, Medium, Coarse

	Test Method	Units	
Physical state			greasy grit
Colour			grey
Odour			oily
Density @ 15 degrees Celcius	ASTM D 1298	kg/L	0.9
Flash Point (PMC)	ASTM D 93	deg C	>150

10. STABILITY AND REACTIVITY

Conditions to Avoid

Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.

Hazardous polymerisation reactions will not occur.

This material is combustible.

Materials to Avoid

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.

Incomplete combustion/thermal decomposition will generate smoke, carbon dioxide and hazardous gases, which will include carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Eyes

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs providing grit content is removed.

Skin

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. Unlikely to cause sensitization by skin contact.

Ingestion

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

Inhalation

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility.

May cause irritation to eyes, nose and throat due to exposure to vapour, mists or fumes.

May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

12. ECOLOGICAL INFORMATION

Mobility

Spillages are unlikely to penetrate the soil.

Persistence and degradability

The oily segment of the product is inherently biodegradable.

The abrasive grain particles suspended within are not biodegradable.

Bioaccumulative potential

There is no evidence to suggest bioaccumulation will occur.

Aquatic toxicity

May be harmful to aquatic organisms. Oxygen transfer could also be impaired.

13. DISPOSAL CONSIDERATIONS

Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

Dispose of product and container carefully and responsibly. Do not dispose of near ponds, ditches, down drains or onto soil.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport (ADG, UN, IATA/ICAO).

Classified as a Combustible Liquid C2, AS 1940-1993

15. REGULATORY INFORMATION

Not classified as a hazardous substance using the Workplace Australia criteria.

Not classified using the criteria in the Standard Uniform Schedule for Drugs and Poisons.

16. OTHER INFORMATION

Compiled by:

Redi-Brite Industries Pty. Ltd.

ABN 55 010 354 140

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