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# Valve Grinding Compound Water Mix

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## MATERIAL SAFETY DATA SHEET

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### 1. IDENTIFICATION OF PRODUCT

Valve Grinding Compound – Water Mix

#### **Application**

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

Not hazardous according to the criteria of Worksafe Australia.

This MSDS consists of 4 pages. Please contact your Redi-Brite representative for any additional copies.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical Composition**

Liquid carriers, Viscosity control agents and water together with synthetic abrasive particles.

#### **Hazardous Components**

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

It should be noted however, that the product does contain 0.4% of Panacide Solution present as an anti-bacterial agent.

Panacide is an alkaline solution of chlorinated phenol.

### 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 well with water without delay and obtain medical attention if any sensations persist.

#### **Skin**

Wash with plenty of water and soap.

### **Ingestion**

Remove material from mouth. Drink plenty of water. If large amount is swallowed or symptoms develop obtain medical attention.

### **Inhalation**

Remove person to fresh air.

### **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 Water (Mist), alcohol resistant foam, dry powder, carbon dioxide to extinguish fire.

**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**

Will not burn unless pre-heated. 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**

Absorb spillage onto inert material (e.g. sand) and collect into suitably labeled containers for disposal at an approved site. Residues and small spillages may be washed away with water. Observe local regulations.

## **7. HANDLING AND STORAGE**

### **Handling Precautions & Storage Conditions**

Store in the original closed containers under dry conditions. Avoid extreme temperatures.

Store in a well ventilated area away from ignition sources and strong oxidizing agents. Keep containers closed when not in use.

### **Fire Prevention**

Keep storage tanks, pipelines, fire exposed surfaces etc. cool with water spray. Shut off any leak if safe to do so and remove sources of re-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 recommends an exposure standard of 10 mg/m<sup>3</sup> (mist) for an 8 hour time weighted average (TWA).

### **Protective Clothing**

Avoid contact with skin and eyes, and avoid breathing vapours or mists. When exposure is likely, personal protective equipment such as safety glasses, PVC gloves, PVC apron and sleeves and PVC or rubber boots.

Where the concentration of vapour or mist is expected to approach the exposure limit, goggles and correct respiratory protection should be worn (Note: If the vapour/mist concentrations exceed the exposure limit by more

than 10 times, air supplied apparatus should be worn). For prolonged elevated exposures a full face air supplied or self contained breathing apparatus should be worn.

If contamination occurs, change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse.

### **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			mild oily
Density @ 20 degrees Celcius	ASTM D 1298	kg/L	12585
Flash Point (PMC)	ASTM D 93	deg C	>177

## **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 foodstuffs, ignition sources and clothing.

### **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**

Can cause irritation.

### **Skin**

Unlikely to be irritant.

### **Ingestion**

Unlikely to be harmful unless excessive amount swallowed.

### **Inhalation**

Not applicable at ambient temperature. Mist can cause irritation.

## **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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