

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: RODECO 103 ABRASIVE COMPOUND

MSDS# 8140303 Effective Date: 3/03/03 Supercedes: 2/12/02 Revisions: Sections 8

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1. PRODUCT IDENTIFICATION:

CHEMICAL FAMILY: Mineral Abrasive Powder
DOT SHIPPING NAME: Abrasive Compound Powder
DOT HAZARD CLASSIFICATION: None
DOT PACKAGING GROUP: none

CHEMICAL FORMULA: n.a. proprietary mixture
DOT HAZARDOUS SUBSTANCE? No RQ: None
UN NUMBER: None
CAS REGISTRY #: n.a. proprietary mixture

2. HAZARD RATINGS:

Health 2 Fire 0 Reactivity 0
[4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Insignificant]

Note: Hazard ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all information contained in this MSDS must be considered.

3. PHYSICAL DATA

BULK DENSITY: .90 VOLATILES BY WEIGHT: 0% pH @ 1% SOLUTION: 10.4
SOLUBILITY/WATER: 25-35% APPEARANCE AND ODOR: Gray Speckled Powder/Slight Odor

4. INGREDIENTS

50-70% Aluminum Oxide, CAS #1344-28-1; TLV (ACGIH): 10 mg/m³; PEL (OSHA): 15 mg/m³; Oral: n.e.; Dermal: n.e.;
Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

25-35% Sodium Tetraborate, CAS # 1303-96-4; TLV/TWA (ACGIH): 5 mg/M³; PEL/TWA (OSHA): 10 mg/M³ Oral LD50 (rats): 4500/5000 mg/kg (US. BORAX INC.); Dermal LD50 (rabbits): 10,000 mg/M³; Inhalation: n.e.; Skin Effects (rabbits): LD50 is > 10,000 mg/kg irritation index 0; Eye Effects (rabbits): Draize test produced mild irritation;

1-5% Sodium Salts of Tallow, CAS #8052-48-0; TLV/TWA (ACGIH) n.e.; PEL/TWA (OSHA) n.e. Oral LD50: n.e.; Dermal LD50: n.e.; Inhalation LC 50: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

5. FIRST AID PROCEDURES

EYE CONTACT: OBJECT IS TO FLUSH MATERIAL OUT OF EYES IMMEDIATELY, THEN SEEK MEDICAL ATTENTION. Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower eyelids and rotating eyeball to ensure rinsing of entire surface of eye and lids. Do not rub eyes. Abrasive materials contained in this product may cause abrasion of the cornea. Contact Physician Immediately!

SKIN CONTACT: Immediately flush with large quantities of water for at least 15 minutes, promptly removing contaminated clothing and shoes. Launder contaminated clothing before reuse. Decontaminate or destroy contaminated shoes. Consult Physician if irritation develops or persists.

INHALATION: Move from contaminated area to fresh air. If breathing difficult, oxygen may be administered by trained personnel. If breathing has stopped, give artificial respiration. Get Medical Attention!

INGESTION: DO NOT INDUCE VOMITING! Give victim a quart of water. Never give anything by mouth to a person who is unconscious or having convulsions. Seek Medical Attention!

6. HEALTH HAZARD DATA

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): n.e. See Section II. "Ingredients" for individual component PEL's.
ACGIH THRESHOLD LIMIT VALUE (TLV): n.e. See Section II. "Ingredients" for individual component TLV's.
CARCINOGEN LISTING? Not containing or considered a carcinogen by OSHA, NTP, OR IARC.

PRIMARY ROUTES OF ENTRY: Skin Contact [X] Eye Contact [X] Inhalation [X]
Ingestion [] Skin Absorption []

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with pulmonary, or respiratory disease such as asthma, bronchitis, and emphysema should avoid prolonged exposure to aluminum oxide dust.

SYMPTOMS OF OVEREXPOSURE:

Acute: May cause irritation to skin and eyes. Abrasive components of this products may cause abrasion of the cornea. Breathing dusts may cause irritation to upper respiratory tract, also coughing and wheezing.

Chronic: Prolonged unprotected exposure to respirable dusts of aluminum oxide may cause diminished lung capacity with shortness of breath during physical exertion. Prolonged unprotected exposure to aluminum oxide will cause increased susceptibility to lung disease.

7. FIRE AND EXPLOSION DATA

FLASH POINT: n.a. Noncombustible. FLAMMABLE LIMITS IN AIR: n.a.

EXTINGUISHING MEDIA: Use media appropriate of surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and appropriate protective clothing to prevent contact should be worn when fighting fires involving chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

8. CONTROL MEASURES

Personal protective equipment selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Use protective clothing which is chemical resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection should take into account such factors as job task, type of exposure, solution concentration, and durability requirements. Information on the selection of eye, skin, and respiratory protection for use of this material is provided below.

VENTILATION REQUIREMENTS: Local exhaust may be necessary if dusts or sprays are generated.

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator should be worn where dust, mist or sprays are expected. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment.

PROTECTIVE GLOVES: Cloth gloves or rubber gloves.

EYE PROTECTION: Close fitting chemical safety goggles.

OTHER PROTECTIVE EQUIPMENT: Rubber boots, rubber apron, coveralls, hard hat, as conditions dictate in order to prevent personal contact with this product and its solutions. Eye wash fountain, safety shower and wash area should be provided in immediate work area.

HYGIENIC PRACTICES IN HANDLING AND STORAGE:

Avoid contact with eyes. Do not wear contact lenses when handling chemicals as they may increase the severity of injury

if product comes in contact with eyes. Use dustless methods for handling and employ engineering controls to reduce concentrations of air borne dusts. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills ledges, or machinery, etc. Maintain clean, tight fitting and tested respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty. Do not take internally. Wash thoroughly after handling. Always have water available for First Aid. For industrial use only. Keep product and its containers out of reach of children. When handling empty containers, all labeled precautions must be observed due to product residues. Do Not reuse containers until they have been professionally cleaned, reconditioned, and old labeling has been removed. Do Not reuse for food or drink.

9 SPILL, LEAK AND DISPOSAL

Recovery and reuse rather than disposal, should be the ultimate goal of handling efforts.

Persons involved in clean-up must wear appropriate protective equipment. Ventilate spill area and keep unauthorized persons out of area. To the extent possible, clean up spillage carefully using shovels or dustless methods such as vacuum so as to avoid generation of dust. Stand upwind if possible. Reclaim material if possible. Flush area with water.

If spilled on the ground, the affected area should be scraped clean and placed in appropriate container for disposal. Do not flush material to public sewer or waterway. Decontaminate all tools, clothing, and equipment following cleanup. None of the ingredients are currently listed as a substance or a source waste under current RCRA regulations.

All disposal should be in accordance to federal, state and local regulations.

10. REACTIVITY DATA:

STABILITY: Stable. CONDITIONS TO AVOID: None.

INCOMPATIBILITY-
MATERIALS TO AVOID: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

CAS# = Chemical Abstract Registry Number; TLV = Threshold Limit Value; TWA = Time Weight Average; PEL = Permissible Exposure Limit; ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = Occupation Safety and Health Administration; LD50 = Lethal Dose 50%; LC50 = Lethal Concentration 50%; n.e. = not established; n.a. = not applicable.

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[End of MSDS]