

MATERIAL SAFETY DATA SHEET

MSDS# R3200106

11/8/08 Effective Date:

Supersedes: 1/3/06

1. PRODUCT & COMPANY IDENTIFICATION:

Product Name: RODECO 320

Company Information:

Rodeco Company, Inc., 5811 Elwin Buchanan Drive, Sanford NC 27330

Technical Assistance Phone: 800-849-0871

24 Hour Emergency Telephone Call CHEMTREC 800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMPONENTS

1-2% Potassium Hydroxide, CAS #1310-58-3; TLV/TWA (ACGIH): 2 mg/M3; PEL/TWA (OSHA): 2 mg/M3; Oral LD50 (rats): 365 mg/kg LD50; Dermal LD50 (rabbits): believed to be 2 gm/kg; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

>90% Water, CAS #7732-18-5; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral: n.e.; Dermal: n.e.; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

1-2% Tetra Potassium pyrophosphate, CAS #7320-34-5; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Nuisance Dusts not otherwise classified: TLV (ACGIH): 10 mg/M3 TWA; PEL (OSHA): 15 mg/M3 (total dust) 5 mg/M3 respirable dust.; Oral LD50 (rats): >2980 mg/kg (Monsanto); Dermal LD50 (rabbits): >7940 mg/kg (Monsanto); Inhalation LC50: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

<1% Sodium Nitrite, CAS #7632-00-0; TLV/TWA (ACGIH): n.e., BASF Corp. recommendations are equal to 2 mg/M3; PEL/TWA (OSHA): n.e. OSHA 8hr. TWA for nuisance dust = 5mg/M3 respirable dust, 15 mg/M3 total dust.; Oral LD50 (rats): 180 mg/kg, Dermal: n.e.; Inhalation: n.e. Skin Effects: n.e.; Eye Effects: n.e.;

<1% Ethylene Glycol Monobutyl Ether, CAS #111-76-2; TLV/TWA (ACGIH): 25 ppm (skin); PEL/TWA (OSHA): 25 ppm (skin); Oral LD50 (rats): 470 mg/kg (Dow Chemical); Dermal LD50 (rabbit): 435 mg/kg (Union Carbide); Inhalation LC50 (rats): 700 ppm in 7 hrs.; Skin Effects (rabbits): 220 mg/kg; Eye Effects: n.e.;

1% Mixed C8 Amphocarboxylates, CAS # proprietary; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral (mouse): 5 ml/kg (Rhône-Poulenc); Dermal: n.e.; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

<1% Alkylaryl polyether alcohol, CAS# 68412-54-4; TLV/TWA (ACGIH) n.e.; PEL/TWA (OSHA) n.e.; Oral LD50 (rats): >5000 mg/kg, (Rhône & Haas); Dermal LD50: n.e.; Inhalation LC50: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW:

FORM: Aqueous based liquid
COLOR: Blue
ODOR: Mild Odor

WARNING STATEMENT:

Danger ! Contains Caustic Potash (Potassium Hydroxide). Causes severe burns to skin and eyes..
Harmful if swallowed. Avoid contact with skin, eyes and clothing.

POTENTIAL HEALTH EFFECTS:

Likely routes of exposure: Eye and skin contact.

SYMPTOMS OF OVEREXPOSURE:

Acute: Contains Caustic Potash (Potassium Hydroxide). Causes severe burns to skin and eyes. Symptoms of skin contact will range from irritation to severe burns, possibly deep ulceration with subsequent scarring, depending on concentrations and length of exposure. A latent period may exist between exposure and sense of irritation. Symptoms of eye contact will be more acute. Small quantities of this product can be destructive to eye tissue upon contact and possibly cause blindness. Breathing mists or sprays may cause irritation to upper respiratory tract. Will be corrosive to any tissues contacted if ingested.

Chronic: None currently known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None currently known.

OTHER HEALTH EFFECTS:

This product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be "probable" or "suspected" carcinogens.

4. FIRST AID MEASURES:

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, forcibly holding eyelids apart to ensure rinsing of entire surface of eye and lids. Washing eyes within several seconds is essential for maximum effectiveness. GET MEDICAL ATTENTION 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!

5. FIRE FIGHTING MEASURES:

FLASH POINT: n.a. Noncombustible. Aqueous based alkaline cleaner.

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.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions: Use personal protection recommended in section 8.

May cause slippery footing. Persons involved in clean-up must wear appropriate protective equipment. Keep unauthorized persons out of area. Mop or soak up small spills. Do not flush caustic residues to sewer. Residues from spills can be diluted with water, then neutralized with dilute acid such as acetic, hydrochloric, or sulfuric.

If large amount is spilled, Dike and pump liquid into suitable containers or holding tanks. May also be absorbed with clay, vermiculite, or inert substance and packaged in suitable containers for disposal. Neutralize residue with dilute inorganic acid and flush area with water.

If spilled on the ground, contaminated soil should be removed and placed in proper containers for disposal. Do not flush material to public sewer or waterway. Decontaminate all tools and equipment following cleanup. If disposed of, the undiluted product would be, and its solutions may possibly be classified as a D002 hazardous waste, due to their corrosive characteristics (high Ph/alkalinity). All disposal should be in accordance to federal, state and local regulations.

7. HANDLING & STORAGE:

Educate and train employees in the safe use and handling of this product. Avoid contact with skin, eyes and clothing! Wear appropriate protective clothing to prevent contact with this product and its solutions. Do not wear contact lenses when handling chemicals as they may increase the severity of injury if product comes in contact with eyes. Clothing, shoes or other protective gear that is contaminated or soaked with this material or its solutions should always be promptly removed and not used until laundered or decontaminated. Contaminated leather shoes and leather goods should always be destroyed. Do not take internally. Wash thoroughly after handling. Wear appropriate protective clothing. Always have water available for First Aid. Store in properly labeled closed containers in cool dry place away from incompatible substances. 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.

SPECIAL PRECAUTIONS FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT:

Remove all traces of product and its residue before working on equipment. Maintenance personnel should wear protective equipment and clothing so as to prevent personal contact and should be informed regarding necessary precautions applicable to this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

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 with this material is provided below. Consult your personal protection equipment provider for advice on equipment and clothing that is most suitable for your work environment.

VENTILATION REQUIREMENTS: Well ventilated area is adequate under normal conditions. Local exhaust may be necessary if mists or sprays are generated.

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

PROTECTIVE CLOTHING: Wear chemical resistant gloves made of Nitrile, neoprene or natural rubber gloves. Long sleeve pants and shirt. Impervious sleeves and apron advisable when transferring product from container to production equipment. If conditions dictate, wear protective clothing made of Tychem (R) SL or similar material for handling wet material.

EYE PROTECTION: Close fitting chemical safety goggles and/or face shield.

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

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: Aqueous based liquid

APPEARANCE: Blue - Non-Viscous

ODOR: Mild

SOLUBILITY/WATER: 100%

pH Straight: 13.75

pH @ 1%:: 11.5

SPECIFIC GRAVITY: 1.15.

VOLATILE BY WEIGHT: <1%

BOILING POINT: >212° F.

VAPOR PRESSURE: as water

VAPOR DENSITY: as water

10. STABILITY AND REACTIVITY:

STABILITY: Stable under ordinary conditions of use and storage. Product and its solutions are strong bases.

CONDITIONS TO AVOID: This product was formulated to be used in low concentrations (approximately 1-3%) on ferrous metals (iron & steel). It will be corrosive to non-ferrous metals (aluminum, zinc, galvanized steel, aluminized steel, brass, tin, and their alloys).

INCOMPATIBILITY / MATERIALS TO AVOID: Contains highly alkaline ingredients including Potassium Hydroxide. Store away from acids.

HAZARDOUS DECOMPOSITION PRODUCTS: May form flammable and explosive Hydrogen gas when non-ferrous metals are left in contact with this product or its solutions. May form oxides of carbon under fire conditions.

HAZARDOUS POLYMERIZATION : Will not occur.

11. TOXICOLOGICAL INFORMATION:

See Section 2.Composition/Information on Ingredients for information on individual ingredients.

12. ECOLOGICAL INFORMATION:

ECOLOGICAL TOXICITY: Not determined.

ENVIRONMENTAL FATE: All components of this product are considered biodegradable.

At low concentrations in water when pH is adjusted to neutrality, this product is biodegradable in a biological waste water treatment plant. (See Disposal Instructions:)

13. DISPOSAL CONSIDERATIONS:

DISPOSAL INSTRUCTIONS:

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

DISPOSAL CONSIDERATIONS:

Classification: Disposed material is not classified as a RCRA Hazardous Waste. However, disposed of water solutions containing this material are classified as RCRA hazardous waste if they exhibit the corrosive characteristic (pH greater than or equal to 12.5) as defined in EPA rules at 40 CFR. '261.22 (a) (I).

At low concentrations in water when pH is adjusted to neutrality, this product is biodegradable in a biological waste water treatment plant. (See Disposal Instructions:)

14. TRANSPORT INFORMATION:

CHEMICAL FAMILY: Alkaline Cleaner

PROPER SHIPPING NAME: Compound Cleaning Liquid (Contains Potassium Hydroxide)

D.O.T HAZARD CLASSIFICATION: Corrosive Material

PACKAGING GROUP: PG III

CHEMICAL FORMULA: n.a. proprietary mixture

DOT HAZARDOUS SUBSTANCE? Yes

USA RQ: 1000 lbs.

UN NUMBER: NA1760

CAS REGISTRY #: n.a. proprietary mixture

15. REGULATORY INFORMATION:

All product components are listed on the EPA/TSCA Inventory of Chemical Substances. This product is biodegradable.

SARA TITLE III - A) 311/312 Categories: Immediate (Acute) Health

B) 313 - Components listed in Section 313:Contains < 2% Ethylene Glycol monobutyl Ether (Glycol Ether) which is listed and may require reporting under the statute.

C) None of this components are listed in Section 302.

CERCLA - Contains 1.5 % by weight of Potassium Hydroxide which is listed in table 302.4 of 40 CFR 302 as a hazardous substance and of which has a reportable quantity (RQ) of 1000 lbs. Also contains less than 1 % Sodium Nitrite which is listed in 302.4. Releases to air, land or water which exceed RQ must be reported to the National Response Center, 800-424-8802.

None of the ingredients of this product are contained on SARA's Extremely Hazardous Substances List Section 301-303. For RCRA Information See "13. DISPOSAL CONSIDERATIONS".

16. OTHER INFORMATION:

PRODUCT USE: Formulated for industrial use only as a metal cleaner to remove grease, oil, and particulate from ferrous metals (iron & steel) in conjunction with aqueous parts cleaning systems.

	Health	Fire	Reactivity
Suggested NFPA Rating	3	0	1
Suggested HMIS Rating	3	0	1

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.

Reason for Revision: New ANSI Standard.

Legend:

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]