

1. Product and Company Identification

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Product Name RXSOL-26-8660-026

Product Type ULTRASONIC CLEANER PD 400

Company Details:

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2. Composition / Information on ingredients

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Proprietary blend of surface active solid ingredients, etc

3. Hazards Identification

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Potential Acute Health Effects

Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (irritant, corrosive), of ingestion, of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Potential Chronic Health Effects

Carcinogenic

Not available.

Mutagenic Effects

Mutagenic for mammalian somatic cells.

Teratogenic Effects

Not available.

Developmental Toxicity

Not available.

The substance may be toxic to mucous membranes, upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

4. First Aid Measures

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Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion

Not available.

5. Fire-fighting Measures

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Flammability of the Product:

Non-flammable.

Auto-Ignition Temperature

Not applicable.

Flash Points

Not applicable.

Flammable Limits

Not applicable.

Products of Combustion

Not available.

Fire Hazards in Presence of Various Substances

metals

Explosion Hazards in Presence of Various Substances

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Slightly explosive in presence of heat

Fire Fighting Media and Instructions

Not available

Special Remarks on Fire Hazards

sodium hydroxide + zinc metal dust causes ignition of the latter.

6. Accidental Release Measures

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Small Spill

Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.

Large Spill

Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and Storage

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Precautions

Keep container dry. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, alkalis, moisture.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic. Deliquescent.

8. Exposure controls and personal protection

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Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits

STEL: 2 (mg/m³) from ACGIH (TLV) [United States] TWA: 2 CEIL: 2 (mg/m³) from OSHA (PEL) [United States] CEIL: 2 (mg/m³) from NIOSH Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

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Physical state and appearance

Solid Powder

Odor
Odorless.
Taste
Not available.
Molecular Weight
40 g/mole
Color
White Powder
pH (1 % soln/water)
Alkaline
Boiling Point
1388°C (2530.4°F)
Melting Point
323°C (613.4°F)
Critical Temperature
Not available.
Specific Gravity
2.13 (Water = 1)
Vapor Pressure
Not applicable.
Vapor Density
Not available.
Volatility
Not available.
Odor Threshold
Not available.
Water/Oil Dist. Coeff
Not available.
Ionicity (in Water)
Not available.
Dispersion Properties
See solubility in water
Solubility
Easily soluble in cold water.

10. Stability and reactivity

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Stability

The product is stable.

Instability Temperature

Not available.

Conditions of Instability

Incompatible materials, moisture, moist air

Incompatibility with various substances

Highly reactive with metals. Reactive with oxidizing agents, reducing agents, acids, alkalis, moisture.

Corrosivity

Not available

Special Remarks on Reactivity

Hygroscopic. Much heat is evolved when solid material is dissolved in water. Therefore cold water and caution must be used for this process. Sodium hydroxide solution and octanol + diborane during a work-up of a reaction mixture of oxime and diborane in tetrahydrofuran is very exothermic, a mild explosion being noted on one occasion.

Special Remarks on Corrosivity

Very caustic to aluminum and other metals in presence of moisture.

Polymerization

Will not occur.

11. Toxicological information

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Routes of Entry

Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals

LD50

Not available.

LC50

Chronic Effects on Humans

Mutagenic Effects

Mutagenic for mammalian somatic cells.

May cause damage to the following organs

mucous membranes, upper respiratory tract, skin, eyes.

Other Toxic Effects on Humans

Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (corrosive), of ingestion, .

Special Remarks on Toxicity to Animals

Lowest Published Lethal Dose

LDL [Rabbit] - Route

Oral; Dose: 500 mg/kg

Special Remarks on Chronic Effects on Humans

May affect genetic material. Investigation as a mutagen (cytogenetic analysis)

Special Remarks on other Toxic Effects on Humans

12. Ecological information

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Ecotoxicity

Not available.

BOD5 and COD

Not available.

Products of Biodegradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation

The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation

Not available.

13. Disposal considerations

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Waste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

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DOT Classification

Class 8: Corrosive material

Special Provisions for Transport

Not available.

15. Regulatory information

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Federal and State Regulations::

CERCLA

Hazardous substances.: Sodium hydroxide: 1000 lbs. (453.6 kg)

Other Regulations

OSHA

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS

This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications

WHMIS (Canada)

CLASS E: Corrosive solid.

DSCL(EEC)

R35- Causes severe burns.S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.S37/39- Wear suitable gloves and eye/face protection. S45- In case of accident or if you feel unwell,seek medical advice immediately (show the label where possible).

HMIS (U.S.A.)

Health Hazard: 3 Fire Hazard: 0 Reactivity: 2

Personal Protection

Health: 3 Flammability: 0 Reactivity: 1

Specific hazard

Protective Equipment

Gloves.Synthetic apron.Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

16. Other information

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References

Not available.

Other Special Considerations

Not available.

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