

# MSDS

Brady Industries, HQ

Material Safety Data Sheet 4013

Conforms to ANSI Z-400.1-1993

Las Vegas, NV 89118

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## 1 Chemical Product and Company Identification

**Product:** Heavy Duty Degreaser

**Classification:** Degreaser

F10

## 2 Composition/Information on Hazardous Ingredients

Material	CAS#	%	OSHA(PEL)	TLV(ppm)	Other
Potassium Hydroxide	1310-58-3	<15	N/A	2mg/m <sup>3</sup>	N/A
Tetrapotassium Pyrophosphate	7320-34-5	<12	N/A	10mg/m <sup>3</sup>	N/A
Phosphate Ester of Ethoxylated Alcohol	68130-97-2	<5	N/A	Irritant	N/A
Sodium Silicate	1344-09-8	<8	N/A	N/A	N/A

## 3 Hazards Identification

**Emergency Overview:** (Contains Potassium Hydroxide)  
**DANGER:** Harmful or fatal if swallowed. Causes skin burns and severe eye damage. Avoid contact with skin and eyes.

**Contact with Eyes:** This product is destructive to eye tissues. Will cause burns that result in damage to the eyes and even blindness if the solution remains in contact with the eye for a prolonged period.

**Contact with Skin:** Repeated or prolonged contact with skin may cause irritation, drying and/or possible tissue damage.

**Skin Absorption:** No data.

**Ingestion Symptoms:** Swallowing will irritate throat, esophagus and digestive tract. Product may cause burns to mucous membranes of the mouth, throat, esophagus and stomach.

**Inhalation Symptoms:** Airborne concentrations of mist/vapor may cause damage to the upper respiratory tract and even lung tissue. If the product is heated, vapors are acutely toxic.

**Chronic Effects:** Respiratory tract damage may result in increased susceptibility to respiratory illness. Excessive inhalation exposure may result in liver and kidney injury.

It is important to determine whether exposure is to concentrated or dilute product. The information in this document is intended to deal with exposure to concentrated product. Generally, exposure to diluted product will result in substantially less risk of injury than described herein.

## 4 First Aid Measures

**Eyes:** If eyes are contacted, flush with water for 15 minutes. If irritation persists seek medical attention.

**Skin:** If skin is contacted, wash affected area with soap and water. If irritation persists, seek medical attention.

**Inhalation:** If discomfort is experienced after prolonged exposure to mists/vapors, remove to fresh air. If breathing is difficult, give oxygen and seek medical attention.

**Ingestion:** If ingested, do NOT induce vomiting. Give moderate amounts of water to wash out mouth area and dilute remaining residue. Seek medical attention.

## 5 Fire Fighting Measures

**Flash Point(F° TCC):** >200°F

**Flammable Limits:** LEL No Data

**UEL** No Data

**Auto Ignition Temperature:**No Data

**Extinguishing Media:** Water Spray, Foam, Carbon Dioxide, Dry Chemical

### Special Fire Fighting Procedures:

Firefighters should wear a positive pressure NIOSH approved self-contained breathing apparatus.

### Unusual Fire and Explosion Hazards:

Containers exposed to heat from fires should be cooled with water fog to prevent container rupture.

## 6 Accidental Release Measures

### Large Spills (55 gallons or more):

Wear rubber boots, gloves and appropriate protective clothing. Shut off source of leak if safe to do so. Dike and contain spill.

### Small Spills:

Mop up spill and rinse area.

## 7 Handling and Storage

**Handling:** Keep out of reach of children. Follow appropriate hygiene practices.

**Storage:** Store in original polyethylene container in a cool dry area, away from bleach and other chemicals.

## 8 Exposure Controls/Personal Protection

### Ventilation and Engineering Controls:

Local exhaust

### Respiratory Protection:

If used according to directions respirator not required.

### Protective Gloves:

Rubber Gloves

### Eye Protection:

Chemical Splash Goggles

### Other Protective Equipment:

## 9 Physical and Chemical Properties

**Boiling Point(F°)**>212°F

**Solubility in Water**Soluble

**Odor:** Neutral

**Specific Gravity:**1.35

**Volatiles(% by Wt.)**62

**pH:** 13.5 - 14

**Appearance:**Dark Brown

**Vapor Density:**>1

**VOC:** N/A

**Evaporation Rate:**<1

**Vapor Pressure:**<17 mm Hg

**Freezing Point(F°)**≥40°F

> means less than < means greater than

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specific items.

## 10 Stability and Reactivity

**Stability:** Stable

**Conditions to Avoid:** Temp. Extremes

**Materials to Avoid:** Strong Oxidizers

### Hazardous Decomposition Products:

Carbon dioxide/monoxide

### Hazardous Polymerization:

Will Not Occur

## 11 Toxicological Information

No Toxicology Information is available.

## 12 Ecological Information

No data available.

## 13 Disposal Considerations

### Waste Disposal Method:

Dispose of waste in accordance with federal, state and local regulations

## 14 Transport Information

**HAZMAT:** Yes

**Hazard Code:** 1632

**ID Number:** UN1760

**Hazard Class:** 8

**Hazardous Division:** Corrosive Liquid n.o.s.

**Packaging Group:** II

**Hazardous Contents:** Potassium hydroxide, Sodium silicate

## 15 Regulatory Information

**Proposition 65:** Not Listed.

**EPA:** No

## 16 Other Information

**HMIS/NFPA Hazard Rating:** Health  Flammability  Reactivity

The information contained herein is based on the data available to us. It is believed to be correct. No warranty, expressed or implied, is made regarding the accuracy of this data or the results to be obtained from the use thereof. For further information consult distributor, Brady Industries, HQ

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