

MSDS

Material Safety Data Sheet 4013

Conforms to ANSI Z-400.1-1993

Brady Industries, HQ

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 ³	N/A
Tetrapotassium Pyrophosphate	7320-34-5	<12	N/A	10mg/m ³	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

MSDS Approval Date: 2/28/2006

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