

HEAVY DUTY METAL CLEANING DETERGENT

Material Safety Data Sheet

SECTION I - COMPANY IDENTIFICATION

PRODUCT: HEAVY DUTY METAL CLEANING DETERGENT

CAT. NO.: HWD1, HWD5

MANUFACTURED BY:
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SECTION II - HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200)

EXPOSURE LIMITS: 8 HR. TWA

Trisodium phosphate (CAS# 7601-54-9)
Oleic Acid (CAS# 112-80-1)
Ethylene glycol monobutyl ether (CAS# 111-76-2)

OSHA PEL	ACGIH TLV
NE	NE
NE	NE
25 ppm (skin)	25 ppm (skin)

SECTION III - HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW: CAUTION! Irritant to skin, eyes, mucous membranes, and respiratory tract. Harmful if swallowed.

POTENTIAL HEALTH EFFECTS:

INHALATION: Vapors may irritate respiratory tract.
EYE CONTACT: Irritant to eyes.
SKIN CONTACT: Irritant to skin.
INGESTION: Harmful if swallowed. May cause headache, nausea, vomiting.

CHRONIC Effects: None established.

NOTE:

CARCINOGENICITY: LISTED IN NTP? No IARC? No OSHA Regulated? No

SECTION IV - FIRST AID MEASURES

INHALATION: Remove victim to fresh air and, if needed, immediately begin artificial respiration. Give oxygen if breathing is labored. Get emergency medical help. Contact a physician immediately.
EYE CONTACT: Flush eyes with water for 15 minutes. Get medical attention if symptoms develop and persist.
SKIN CONTACT: Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek medical attention if symptoms develop and persist.
INGESTION: Do not induce vomiting. Rinse mouth out with water. Get immediate medical attention.

SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT (TEST METHOD): None - aqueous solution.
FLAMMABLE LIMITS: LOWER: NA UPPER: NA
AUTOIGNITION TEMPERATURE: ND

GENERAL HAZARD: Aqueous solution, not flammable.

FIRE FIGHTING INSTRUCTIONS: Approach fire from upwind side. Avoid breathing smoke, fumes, mist or vapors on the downwind side. Firefighters wear protective clothing and self contained breathing apparatus. If stored in drums: Containers may rupture from internal pressure if confined to fire area. Cool with water. Get non-emergency personnel out of the area.

EXTINGUISHING MEDIA: Dry powder, carbon dioxide (CO₂), water fog or spray.

HAZARDOUS COMBUSTION PRODUCTS: Acid smoke, irritating fumes, toxic fumes of Na₂O, CO, CO₂, and PO_x.

SECTION VI - ACCIDENTAL RELEASE MEASURES

LAND SPILL: Emergency response coordinator must have mandated training. Eliminate all ignition sources. **SMALL SPILLS:** Pick up with absorbent materials and place in non-leaking containers; seal tightly for proper disposal or reuse. **LARGE SPILLS:** Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels.
WATER SPILL: Notify proper authorities.

Clean up leaks/spills immediately to prevent soil or water contamination.

SECTION VII - HANDLING AND STORAGE

HANDLING: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown in section IV. Launder contaminated clothing before reuse.

STORAGE: Store away from acids.

HEAVY DUTY METAL CLEANING DETERGENT

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation recommended.

PERSONAL PROTECTION: Respiratory protection not needed under proper conditions of storage and use. Use chemical gloves, chemical goggles or full face shield. Wear boots, aprons, drench showers, eye wash as needed for protection against spills and/or splashes.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: ND

SPECIFIC GRAVITY (H₂O=1): 1.05

SOLUBILITY IN WATER: Soluble

pH: 10.5 - 11.5

BOILING POINT: 212 F

APPEARANCE & ODOR: Pale yellow liquid, organic odor.

VAPOR DENSITY (Air=1): ND

EVAPORATION RATE (BuAc=1): >1

VOC (G/L): 29

FREEZING POINT:

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: High temperatures.

MATERIALS TO AVOID: Oxidizers, acids.

HAZARDOUS DECOMPOSITION PRODUCTS: From combustion: smoke, CO, CO₂, PO_x, Na₂O.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

Trisodium Phosphate

LDLo: 1580 mg/kg

(ivn - rabbit)

Oleic Acid

15 mg/3D-I

(skin - human) moderate

LD50: 74 g/kg

(oral - rabbit)

Ethylene glycol monobutyl ether

TDLo: 600 mg/kg

(oral - woman)

TCLo: 100 ppm

(inh - human) NOSE, EYE, CNS

TCLo: 195 ppm/8 hr

(inh - human) GIT

SECTION XII - ECOLOGICAL INFORMATION

Trisodium Phosphate

151 ppm / 96 H / Mosquito fish / TLm / turbid water

126 ppm / 96 H / Daphnea magna / TLm

Ethylene Glycol monobutyl ether

1000 ppm // 24 H / Brine shrimp / TIm

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose as hazardous waste. Classification and documentation is required before disposal. Follow all local, state and federal regulations.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Not regulated.

HAZARD CLASS: NA

IDENTIFICATION NUMBER: NA

DOT Emergency Guide #: NA

Reportable Quantity (RQ): NA

International: NA

SECTION XV - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): Not listed.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Section 313, Toxic Materials: Ethylene glycol monobutyl ether CAS# 111-76-2 1 - 5%

CALIFORNIA PROPOSITION 65: Not listed.

SECTION XVI - OTHER INFORMATION

State Right-to-Know Programs: Not listed.

NFPA Ratings

Health: 2

Flammability: 0

Reactivity: 0

HMIS Protective Equipment: X See your supervisor

Prepared by: Virginia KMP Corporation

revised: 11/16/2012

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