

MATERIAL SAFETY DATA SHEET

N/A=NOT APPLICABLE

EFFECTIVE DATE 4/02

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: HEAVY DUTY HIGH ALKALI CLEANER CONC. (HD650) Chemical Family: CLEANING COMPOUND
Supplier's Name: Banner Chemical Corp. Proper Shipping Name: SODIUM HYDROXIDE SOLUTION
Supplier's Address: 111 Hill St. DOT Shipping Hazard: 8, CORROSIVE LIQUID
Orange, NJ 07050 DOT Labels Required: CORROSIVE, UN 1823
DOT packing Group: II

EMERGENCY TELEPHONE NUMBER 973/676-2900

HMIS RATING(0-4): HEALTH: 3 FIRE: 0 REACTIVITY: 1

SECTION 2 - HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS NO. | % (optional) | TLV(ACGIH) |
|-------------------|-----------|--------------|------------|
| *Sodium Hydroxide | 1310-73-2 | 9.0-20.0 | 2.0mg/M |

*This toxic chemical is subject to reporting requirements of Sec. 313-SARA Title III-40CFR. Part 372

SECTION 3 - PHYSICAL DATA

BOILING POINT: 212°F.
VAPOR PRESSURE(mmHg @ 20°C):N/A
VAPOR DENSITY(air=1): N/A
SPECIFIC GRAVITY: 1-1.2
PHYSICAL DESCRIPTION: Viscous liquid, red with citrus scent
pH: 12-13.5

SECTION 4 - FIRE and EXPLOSION DATA

FLASH POINT: None at boiling
FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: Media proper to primary cause of fire.
SPECIAL FIREFIGHTING PROCEDURES: None known

UNUSUAL FIRE & EXPLOSION HAZARD: May release explosive hydrogen gas upon contact with reactive metals, such as magnesium, aluminum or zinc.

SOLUBILITY IN WATER: 100%

EVAPORATION RATE: 1.0

% VOLATILE BY VOLUME: 80-90

SECTION 5 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 2 MG/M3 (Ceiling) OSHA Pel: 2 MG/m3 (Ceiling) LD50 (Oral-Rat): 140-340 MG/KG

EFFECTS OF OVEREXPOSURE: Inhalation of mist can cause irritation. At high concentrations, more severe burns and upper respiratory damage can occur. Liquid contact with the skin can cause severe burns with deep ulcerations. Contact with the eyes can cause severe burns and blindness. Ingestion can cause severe burns to the mouth, throat, stomach and other tissues which may result in death.

EMERGENCY & FIRST AID PROCEDURES: EYE: Immediately flush with copious amount of water for at least 15 min. while holding eyelids open. SKIN: Remove contaminated clothing and wash skin thoroughly. Continue washing until slick skin feeling is gone. Wash all contaminated clothing before reuse. INHALATION: Remove to fresh air. If breathing has stopped give artificial respiration. INGESTION: General precautionary measures suggest do not inducing vomiting. Give large amount of water to dilute. Never give anything by mouth to an unconscious person. In all cases consult a physician immediately.

SECTION 6 - REACTIVITY DATA

STABILITY: Stable

SECTION 7 - SPILL or LEAK PROCEDURES

SPILLAGE: Contain, neutralize and absorb with Ban-dri, earth, sand or similar inert material

INCOMPATIBILITY: Acids, Aluminum, Tin, Lead, Zinc and their alloys, Chlorinated and Fluorinated Hydrocarbons, Organic Materials.

WASTE DISPOSAL METHOD: In a manner consistent with federal, state and local regulations

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use N-IOSH approved respirator for mist

VENTILATION: Local exhaust sufficient

GLOVES: Rubber or chemical resistant

EYE PROTECTION: Goggles or face-shield if splashing

expected OTHER PROTECTIVE EQUIPMENT: Chemical resistant can be used if contact or splashing expected.

SECTION 9 - SPECIAL PRECAUTIONS

Do not get in eyes or on skin. Wash thoroughly after handling. Use with adequate ventilation. Store away from other chemicals and out of reach of children. Store in closed container away from fire and extreme heat. Material is corrosive to eyes, skin and mucous membranes.

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