MATERIAL SAFETY DATA SHEET

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.
Orange, NJ 07050
DOT Shipping Hazard: 8, CORROSIVE LIQUID
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.
FLASH POINT: None at boiling
VAPOR PRESSURE(mmHg @ 20°C): N/A
FLAMMABLE LIMITS: N/A
SPECIFIC GRAVITY: 1-1.2
EXTINGUISHING MEDIA: Media proper to primary cause of fire.
PH: 12-13.5
SPECIAL FIREFIGHTING PROCEDURES: None known
SOLUBILITY IN WATER: 100%
UNUSUAL FIRE & EXPLOSION HAZARD: May release explosive hydrogen gas upon contact with reactive metals, such as magnesium, aluminum or zinc.
EVAPORATION RATE: 1.0
% VOLATILE BY VOLUME: 80-90

SECTION 4 - FIRE and EXPLOSION DATA

STABILITY: Stable
HAZARDOUS DECOMPOSITION PRODUCTS: None known
HAZARDOUS POLYMERIZATION: Will not occur
RESPIRATORY PROTECTION: Use N-OSHA approved respirator for mist
VENTILATION: Local exhaust sufficient
GLOVES: Rubber or chemical resistant
EYE PROTECTION: Goggles or face-shield if splashing expected
HAZARDOUS PROCEDURE INFORMATION: Chemical resistant can be used if contact or splashing expected.
HAZARDOUS DISPOSAL METHOD: In a manner consistent with federal, state and local regulations

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
HAZARDOUS DECOMPOSITION PRODUCTS: None known
HAZARDOUS POLYMERIZATION: Will not occur
RESPIRATORY PROTECTION: Use N-OSHA approved respirator for mist
VENTILATION: Local exhaust sufficient
GLOVES: Rubber or chemical resistant
EYE PROTECTION: Goggles or face-shield if splashing expected
HAZARDOUS PROCEDURE INFORMATION: Chemical resistant can be used if contact or splashing expected.

SECTION 7 - SPILL or LEAK PROCEDURES

SPILLAGE: Contain, neutralize and absorb with Ban-dri, earth, sand or similar inert material
WASTE DISPOSAL METHOD: In a manner consistent with federal, state and local regulations

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use N-OSHA approved respirator for mist
VENTILATION: Local exhaust sufficient
GLOVES: Rubber or chemical resistant
EYE PROTECTION: Goggles or face-shield if 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.

The data and recommendations presented herein are based upon research of others and are believed to be accurate. The manufacturer makes no warranties, express or implied, as to the accuracy, completeness or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee, the vendee’s employees or anyone for any direct, special or consequential damages arising out of, or in connection with, the accuracy, completeness, adequacy or furnishing such information.