

Material Safety Data Sheet



ADR #1

SECTION I - IDENTIFICATION

MANUFACTURER'S NAMEHaviland Products Company
MANUFACTURER'S ADDRESS421 Ann St., N.W., Grand Rapids, MI 49504
PHONE NUMBER..... (616) 361-6691
EMERGENCY PHONE NUMBERCHEMTREC (800) 424-9300
EFFECTIVE DATE.....4/4/03
TRADE NAME.....**ADR #1**
CHEMICAL FAMILY.....Alkaline Cleaner

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
Sodium hydroxide (Caustic Soda; Lye)	2.0 mg/m3	2.0 mg/m3	1310-73-2
Sodium Carbonate (Soda Ash)	Not Established	Not Established	497-19-8

SECTION III - PHYSICAL DATA

BOILING POINT No Information Available
FREEZING POINT No Information Available
VAPOUR PRESSURE No Information Available
VAPOUR DENSITY (air=1) No Information Available
SOLUBILITY IN H2O..... Very Soluble
ODOUR AND APPEARANCE Off White Powder; Detergent Odor
SPECIFIC GRAVITY 2.01
pH..... 1% Solution: 12.6

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT AND METHOD OF DETERMINATION Will Not Burn
LOWER EXPLOSIVE LIMIT (% by Volume) Not Applicable
UPPER EXPLOSIVE LIMIT (% by Volume) Not Applicable
MEANS OF EXTINCTION..... As for Surrounding Media
SPECIAL FIRE FIGHTING PROCEDURES..... Self-contained respiratory protection and protective clothing should be worn by firefighters in areas where caustic soda is stored.
UNUSUAL FIRE HAZARD..... In water solution will react with amphoteric metals (such as aluminum) to generate hydrogen, which is flammable and/or explosive if ignited.

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SECTION V - HEALTH HAZARD DATA

CARCINOGENICITY, REPRODUCTIVE EFFECTS None
NTP? No
IARC MONOGRAPHS? No
OVER EXPOSURE EFFECTS Eye burns can result in permanent damage and/or loss of vision. Skin burns may result in deep ulceration with subsequent scarring. Inhalation can produce chemical pneumonia. Ingestion may result in burns to mouth, throat, esophagus, and stomach.
PRIMARY ROUTE(S) OF ENTRY Eye and Skin Contact
SPECIFIC FIRST AID PROCEDURES In case of contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. If inhaled: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. Ingestion: Do not induce vomiting. Call a Physician Immediately. For Skin: Thoroughly flush skin with plenty of water, followed by vinegar or 3% acetic acid; wash contaminated clothes before reuse.
EXPOSURE AGGRAVATED MEDICAL CONDITIONS Respiratory Conditions

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable
CONDITIONS TO AVOID None Currently Known
INCOMPATIBLE MATERIALS All acids, copper, magnesium, aluminum, tin, zinc (galvanized), leather, wool, strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS None Currently Known
HAZARDOUS POLYMERIZATION Will Not Occur
POLYMERIZATION AVOID Not Applicable

SECTION VII - SPILL OR LEAK PROCEDURE

LEAK AND SPILL PROCEDURES Remove and reclaim as much as possible (shovel up). Neutralize remaining traces with dilute acid, flush with water.
WASTE DISPOSAL Dilute with water, then neutralize with dilute acid. Comply with federal, state, and local regulations.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION NIOSH approved respirator for dusts and mists.
VENTILATION To keep below limits.
PROTECTIVE GLOVES Rubber or other impervious material.
EYE PROTECTION Chemical splash goggles and face shield.
OTHER PROTECTIVE EQUIPMENT Boots, safety shoes, hard hat, apron, and other impervious clothing necessary to protect skin. A safety shower and eye bath should be available.
HANDLING PROCEDURES AND EQUIPMENT Store in cool, dry, well ventilated place. Protect against moisture and water. Keep away from acids. Keep containers sealed. Because of the strongly exothermic reaction of caustic materials with water, always add caustic to water (80°-100°F), not water to caustic, and always agitate until dissolved completely.

SECTION IX - SPECIAL PRECAUTIONS

HAZARD CLASS CORROSIVE, 8, PG II
DOT SHIPPING NAME SODIUM HYDROXIDE, SOLID
UN NUMBER UN1823

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REPORTABLE QUANTITY (RQ)..... 1500 lb.

REFERENCES

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