

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 3 Flammability = 0 Reactivity = 0

HMIS RATING: Health = 3 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0680D)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: CLEAN RELEASE

Address: 302 North Fourth Street

Date Prepared: June 29, 1998

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800)-424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 2303)

<http://www.hillyard.com>

SECTION II -- INGREDIENTS/IDENTITY INFORMATION**Components**

(Specific Chemical Identity: Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
Sodium lauryl sulfate	151-21-3	not established	not established	N/A	---
Akyl imino acid, sodium salt	64972-19-6	not established	not established	N/A	---
Sodium citrate	68-04-2	not established	not established	*	2-6
Linear primary alcohol ethoxylate	68439-46-3	not established	not established	N/A	---
Sodium xylene sulfonate	1300-72-7	not established	not established	N/A	---

* OSHA, Particles not otherwise regulated: Total dust PEL = 15 mg/M³; respirable dust = 5 mg/M³; ACGIH = 10 mg/M³.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 219.7°F **Specific Gravity (H₂O = 1):** 25°C = 1.04 & 39°C = 1.04

Point:

Vapor Pressure (mm Hg.): 17.7 **Percent Volatile by Volume (%):** 82.8

Vapor Density (AIR = 1): 0.6 **Evaporation Rate (ethyl ether = 1):** slower than 1

Solubility in Water: appreciable **Appearance and Odor:** clear, yellow, semi-viscous liquid; evergreen odor

pH (concentrate) = 7.0

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: none to boiling (T.C.C.) **Flammable Limits:** LEL = N/A UEL = N/A

Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical

Special Fire Fighting Procedures: Self-contained positive pressure breathing apparatus and protective clothing should be worn if fighting fires involving chemicals.

Unusual Fire and Explosion Hazards: None known to manufacturer

SECTION V -- PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** N/A

Incompatibility (Materials to Avoid): Avoid strong oxidizing agents or mineral acids

Hazardous Decomposition Products or Byproducts: Decomposition products under fire conditions: fumes of ammonia, carbon monoxide, carbon dioxide, oxides of nitrogen and various hydrocarbons.

Hazardous Polymerization: Will not occur **Conditions to Avoid:** N/A

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? No Skin? No Ingestion? No

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Causes eye burns. Based on product testing not a skin irritant per FHSA, CFR 16, Chapter IIc, paragraph 1500.41. Per acute oral toxicity testing on product, 0 mortality at 5 g/kg; acute inhalation (1 hour) toxicity limit test = 0 mortality at 10.9 mg/l (actual measurement).

2. None known by manufacturer.

SECTION VI -- HEALTH HAZARD DATA cont.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

Signs and Symptoms of Exposure: Concentrate may burn eyes if not removed promptly. Breathing of highly concentrated vapors or spray mists may cause irritation to the respiratory tract.

Medical Conditions Generally Aggravated by Exposure: Respiratory tract irritations may be aggravated by nuisance dust from excess dried solids.

Emergency and First Aid Procedures: In case of contact, flush skin and eyes with plenty of water for 15 minutes. For eyes get medical attention immediately. If inhaled remove to fresh air. If irritation persists get medical attention.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Large spill: Absorb with an inert material such as sand, earth or vermiculite. Small spill: Pick up with wet vac or mop.

Waste Disposal Method: Dispose of waste in accordance with state and local regulations. Container disposal: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Precautions To Be Taken In Handling And Storing: Prevent product from entering drinking water supplies or streams.

Other Precautions: This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): None required when used per label directions.

Ventilation:

Local Exhaust = Not necessary **Mechanical (General)** = Recommended **Special** = N/A **Other** = N/A

Protective Gloves: Not necessary **Eye Protection:** Safety goggles when using concentrate

Other Protective Clothing or Equipment: Wear trousers and long sleeved shirt.

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no.

Proper shipping name: Cleaning compound

UN No.: not applicable **Limited Qty.:** not applicable **Hazard Class** = not applicable

Labels required: not required **DOT Exception:** not applicable

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity** = not applicable; **Reactivity** = not applicable

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