

Clean Action® II - #902

Following are the technical data and Material Safety Data Sheet (MSDS) for this product. All efforts are made to update this information in a timely manner. Please contact the manufacturer for pending changes or changes that have not yet been posted.

Technical Data

PHYSICAL PROPERTIES

1. Color: Green
2. Odor: Fresh Floral Scent
- 3 Clarity: Translucent
4. Sediment: None
5. Viscosity, Gardner, 25°C: A5
6. Weight per gallon: 8.34 lbs (3.8 kg)
7. Nonvolatile matter: 3 - 4 %
8. pH: 9.0 - 9.8
9. Phosphate content: None
10. Free ammonia: None
11. Water conditioners: Present
12. Heat stability (30 days, 52°C): No separation
13. Flash point (TCC): None
14. Butyl content: None
15. Percent Active Ingredients: 12 %

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TEST METHODS

5. ASTM D803
6. ASTM D1475
7. ASTM D2834
8. ASTM E70
13. ASTM D56

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MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1	Flammability = 0	Reactivity = 0
HMIS RATING: Health = 1	Flammability = 0	Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (#898A)

Manufacturer's Name: HILLYARD INDUSTRIES	Product Name: CLEAN ACTION II
Address: 302 North Fourth Street	Date Prepared: August 17, 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)

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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
Propylene Glycol N-Propyl Ether	1569-01-3	not established	not established	N/A
Sodium Lauryl Sulfate	151-21-3	not established	not established	N/A
Octylphenoxy polyethoxy Ethanol	9036-19-5	not established	not established	N/A

VOS = 0.45 lbs./gal. with water; or when diluted 4 oz./gallon = less than 1 %

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 216°F	Specific Gravity (H₂O = 1): 25°C = 1.00 & 39°C = 1.00
Vapor Pressure (mm Hg.): 17.4	Percent Volatile by Volume (%): 96.4%
Vapor Density (AIR = 1): 0.8	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete	Appearance and Odor: white liquid, fresh floral fragrance
pH (concentrate) = 9-9.8	

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None (T.C.C.)	Flammable Limits: LEL = N/A	UEL = N/A
Extinguishing Media: N/A		
Special Fire Fighting Procedures: None		
Unusual Fire and Explosion Hazards: None		

SECTION V -- PHYSICAL HAZARDS

Stability: Stable	Conditions to Avoid: N/A
Incompatibility (Materials to Avoid): None known	
Hazardous Decomposition Products or Byproducts: None known	
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. Not a primary skin irritant per Federal Hazardous Substance Act. Prolonged contact with skin may cause slight irritation. A Primary eye irritant per the Federal Hazardous Substance Act. Concentrate not acutely toxic orally at 5 g/kg.

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SECTION VI -- HEALTH HAZARD DATA continued.

Prolonged overexposure to dry residue may cause nose and throat irritation. A single brief (minutes) inhalation exposure is not likely to cause adverse effects. Not acutely toxic at 46.7 mg/L. (actual concentration = 46.7 mg/L.) Prolonged overexposure by inhalation may have anesthetic or narcotic effects. Notice: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. 2. None known by Hillyard Industries.

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: Overexposure may cause drowsiness, headache and uncoordination.**Medical Conditions Generally Aggravated by Exposure:** Respiratory tract irritations may be aggravated by nuisance dust from excess dried solids.

Emergency and First Aid Procedures: If swallowed, get medical attention. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes. If skin irritation persists, get medical attention. Inhalation - If you experience difficulty in breathing leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

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 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

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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 =****Protective Gloves:** Not necessary **Eye Protection:** Not necessary**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**DISCLAIMER OF WARRANTIES****NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.****The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained here is presented in good faith and is believed to be appropriate and accurate.****THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THE PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.**