

Hess & Clark, Inc.
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Randolph, WI 53956
(920) 326-2461
(Regulatory Office)
(920) 326-5141
(Manufacturing Location)

In Case of Emergency, Call:
1-800-498-5743 (U.S. Medical Emergency)
1-651-523-0318 (International, Medical Emergency)
1-800-424-9300 (U.S. CHEMTREC)
1-703-527-3887 (International, CHEMTREC)
(collect calls will be accepted on all lines)

1. PRODUCT IDENTIFICATION

Product Name: **Tryad[®] Disinfectant**
 EPA Signal Word: **DANGER**
 Chemical Name: N-alkyl (50% C14, 4% C12, 10% C16)-dimethylbenzylammonium chloride
 Chemical Class: Disinfectant
 EPA Registration Number: 134-67 **Section(s) Revised: Header (emergency phone numbers)**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	Percentage By Weight
N-Alkyl-dimethylbenzylammonium chloride (CAS No. 68424-85-1)	Not Established	Not Established	Not Established	No	5.000
Sodium Hydroxide 50% Solution (CAS No. 1310-73-2)	2.0 mg/m ³ (TWA)	2.0 mg/m ³ (TLV)	Not Established	No	3.003
Polyoxyethylene nonylphenyl (CAS No. 9016-45-9)	Not Established	Not Established	Not Established	No	5.006
Inert Ingredients	Not Established	Not Established	Not Established	No	86.991

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

3. HAZARDS IDENTIFICATION

DANGER: Primary Routes of Entry of Concern are Eye Contact, Skin Contact, and Inhalation

Hazardous Decomposition Products

Nitrogen oxides and hydrogen chloride may be released under fire conditions.

Physical Properties

Appearance: Light green liquid
 Odor: Amine

Unusual Fire, Explosion, and Reactivity Hazards

None known.

4. FIRST AID MEASURES

Have the product container, label, or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment. **FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL 1-800-498-5743 (U.S. Medical Emergencies) or 1-651-523-0318 (International Medical Emergencies, Collect Calls will be accepted).**

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

- Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Inhalation:** Move person to fresh air. If person is not breathing, call **911** or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. (Contains sodium hydroxide)

Medical Conditions Likely to be Aggravated by Exposure

None known.

5. FIRE FIGHTING MEASURES

Fire and Explosion

- Flash Point (Test Method): Does not flash (aqueous mixture)
- Flammable Limits (% in Air): Lower: % Not Available Upper: % Not Available
- Autoignition Temperature: Not Available
- Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, water spray or fog.

Hazardous Decomposition Products:

Nitrogen oxides and hydrogen chloride may be released under fire conditions.

Unusual Fire, Explosion, and Reactivity Hazards

None known.

In Case of Fire

Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear. Avoid using heavy streams of water.

6. ACCIDENTAL RELEASE MEASURES

Emergency Action

Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent material from entering sewers, waterways or low areas.

Large Spills: Dike ahead of liquid spill. Absorb into inert material (sawdust, sand, oil dry or other absorbent material) and place in plastic or plastic-lined containers for proper disposal.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

7. HANDLING AND STORAGE

Handling Procedures: Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage precautions: Store in a dry, well-ventilated area. Do not store at temperatures below 32° F. Avoid excessive heat. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local ventilation is recommended. Work in well-ventilated areas.

Eye Contact: Chemical goggles or shielded safety glasses.

Skin Contact: Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear chemical resistant gloves (i.e., nitrile or butyl).

Inhalation: Wear a NIOSH/MSHA approved pesticide respirator with an organic vapor cartridge and pesticide pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light green liquid
Odor: Amine
Boiling Point: 220°F
Specific Gravity: 1.05-1.06 g/ml (water=1)
Bulk Density: 8.76-8.84 lbs/gallon
pH: 13.4 (neat)
Solubility in H₂O: Soluble
Vapor Pressure: Similar to water
Percent Volatile: 85.00% (by volume)
Evaporation Rate: Not Established

Note: The physical data presented here are typical values based on material tested, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: None known.
Materials to Avoid: Acids, bases, strong reducing agents, and oxidizing materials.
Hazardous Decomposition Products: Nitrogen oxides and hydrogen chloride may be released under fire conditions.

11. TOXICOLOGICAL INFORMATIONAcute Toxicity/Irritation Studies (Finished Product)

Ingestion: Acute Oral (LD₅₀ Rat) : Not Available
May cause stomach distress, nausea, or vomiting
Dermal: Acute Dermal (LD₅₀ Rabbit) : Not Available
Inhalation: May cause respiratory tract irritation; probable mucosal damage.
Eye Contact: (Rabbit) Undiluted product is corrosive and will cause eye damage.
Skin Contact: (Rabbit) Moderate Skin Irritation

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

12. ECOLOGICAL INFORMATION

Do not discharge effluent containing this product directly to water. Do not contaminate water when disposing of equipment wash water.

13. DISPOSAL CONSIDERATIONSContainer Disposal

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For containers 1 gallon or less: Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

14. TRANSPORT INFORMATIONDOT Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Corrosive Liquid, Basic, Organic, N.O.S., 8, UN3267, III (Sodium Hydroxide)
Hazard Class: 8
UN Number: 3267
Packing Group: III
Label: Corrosive
Special Instructions: Not Applicable

DOT Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Corrosive Liquid, Basic, Organic, N.O.S., 8, UN3267, III (Sodium Hydroxide)
Hazard Class: 8
UN Number: 3267
Packing Group: III
Label: Corrosive
Special Instructions: Limited Quantities

IMDG Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Corrosive Liquid, Basic, Organic, N.O.S., 8, UN3267, III (Sodium Hydroxide)
Hazard Class: 8
UN Number: 3267
Packing Group: III
Label: Corrosive
Special Instructions: Not Applicable

IMDG Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Corrosive Liquid, Basic, Organic, N.O.S., 8, UN3267, III (Sodium Hydroxide)
Hazard Class: 8
UN Number: 3267
Packing Group: III
Label: Corrosive
Special Instructions: Limited Quantities

IATA Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Corrosive Liquid, Basic, Organic, N.O.S., 8, UN3267, III (Sodium Hydroxide)
Hazard Class: 8
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Packing Group: III
Label: Corrosive
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IATA Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Corrosive Liquid, Basic, Organic, N.O.S., 8, UN3267, III (Sodium Hydroxide)
Hazard Class: 8
UN Number: 3267
Packing Group: III
Label: Corrosive
Special Instructions: Limited Quantities

Canadian Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Corrosive Liquid, Basic, Organic, N.O.S., 8, UN3267, III (Sodium Hydroxide)
Hazard Class: 8
UN Number: 3267
Packing Group: III
Label: Corrosive
Special Instructions: Not Applicable

Canadian Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Corrosive Liquid, Basic, Organic, N.O.S., 8, UN3267, III (Sodium Hydroxide)
Hazard Class: 8
UN Number: 3267
Packing Group: III
Label: Corrosive
Special Instructions: Limited Quantities

15. REGULATORY INFORMATIONEPA SARA Title III Hazard Classification

Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
Delayed	<u>N</u>	Reactive	<u>N</u>		

Section 313 Toxic Chemicals

Not Listed

California Proposition 65

Not Listed

CERCLA/SARA 302 Reportable Quantity (RQ)

33301 pounds of the formulation, which contains 1000 pounds of Sodium Hydroxide

RCRA Hazardous Waste Classification (40 CFR 261)

Not Listed

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 3
 Flammability: 0
 Instability: 0

HMIS Hazard Ratings

Health: 3
 Flammability: 0
 Reactivity: 0
 PPE: H

0 - Minimal
 1 - Slight
 2 - Moderate
 3 - Serious
 4 - Extreme

For Non-Emergency Questions About This Product Call:

1-800-621-8829

Neogen Corporation

Lexington, KY

www.Hacco.com

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 Replaces: June 4th, 2008

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