



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **HANDTEK HAND CLEANER**

Description: Water Soluble HD Hand Cleaner
Product Code: HT1
Suggested Use: HAND CLEANER
Restrictions on Use: N/A

Supplier: **TEKMAR**
927 Indio Muerto St. Santa Barbara, CA 91320, USA

Telephone: 805-965-0704
Fax: 805-963-7794

Emergency Phone: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

GHS Classification: Eye irritation (2A)
Acute Toxicity, Oral (Category 4)
Acute Aquatic Toxicity (Category 3)

GHS Label Elements

Pictogram:



Signal Word: Warning

Hazard Statements: H320: Causes eye irritation
H302: Harmful if swallowed
H401: Toxic to aquatic life

Precautionary Statements: P303+P361+P353: IF ON SKIN OR HAIR: Remove all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P264: Wash skin thoroughly after handling

HMIS Classification: Health Hazard: 1
Flammability: 1
Physical Hazards: 0

NFPA Rating: Health Hazard: 1
Fire: 1
Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if heated vapors are inhaled.
Skin: May cause skin irritation.

Eyes: Contact causes eye irritation.
Ingestion: Harmful if swallowed. Do not ingest.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Concentration</u>
Nonylphenol , Ethoxylated	127087-87-0	< 10%
Alcohols, C6-12, ethoxylated propoxylated	68937-66-6	< 5%
Alcohols, C10-16, ethoxylated propoxylated	69227-22-1	< 5%
Synonyms:	NP-9, Surfactant 579	

4. FIRST AID MEASURES

If Inhaled: If inhaling causes irritation, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact: Take off contaminated clothing and shoes immediately. Flush skin with plenty of water.. Consult a physician.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses if able to do so. Continue rinsing eyes during transport to hospital.

If Ingested: Do NOT induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Flammability Overview: Considered a low flammability risk

Flash Point: > 238° C (460° F)

Extinguishing Media: Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Tailor extinguishing media to surrounding fire.

Special Protective Equipment for Firefighters: Wear a self-contained breathing apparatus (SCBA) for firefighting if necessary.

Hazardous Combustion Products: Hazardous decomposition products under fire conditions: Carbon Oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing heated vapors, mist, or gas. Always ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent from entering drains and waterways. Discharge into the environment must be avoided.

Containment and Clean Up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. If assistance is needed call INFOTRAC or emergency services.

7. HANDLING AND STORAGE

Safe Handling:	Avoid breathing heated vapors, mist, or gas. Always ensure adequate ventilation.
Safe Storage:	Keep containers tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Exposure Limit	Basis
Nonylphenol	127087-87-0	N/A	ACGIH threshold Value (TLV)
Ethoxylated		N/A	OSHA threshold Z-1; Limits for air contaminants
		N/A	ACGIH threshold Value (TLV)

Personal Protective Equipment

Eye Protection:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available where eye contact can occur.
Hand Protection:	Wash and dry hands after use.
Skin Protection:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Safety showers should be located in the work area where skin contact can occur.
Respiratory Protection:	Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full-face respirator with appropriate cartridges. For high concentrations, unknown concentrations, and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.
General Controls:	Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Wet Paste
Color:	Yellow
Odor:	Mild Sea Breeze Odor
Odor Threshold:	N/A
pH:	7.0
Melting/Freezing Point:	< 0° C (32° F)
Boiling Point:	>100 °C (212 °F)
Flash Point:	>238 °C (460 °F)
Evaporation Rate:	N/A

Flammability (solid, gas): N/A
 Flammability/Explosion Limits: N/A
 Vapor Pressure @ 20°C: N/A
 Vapor Density: N/A
 Specific Gravity: 0.54
 Density: 4.5 lbs/gal
 Solubility in Water: Complete
 Partition Coefficient: N/A
 Autoignition Temperature: N/A
 Decomposition Temperature: N/A
 Viscosity: 100 cPs

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.
 Conditions and Materials to Avoid: No specific data available
 Hazardous Decomposition Products: Hazardous decomposition products under fire conditions: Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	CAS Number	Test	Toxicity
Nonylphenol , Ethoxylated	127087-87-0	Oral LD50 (Rat)	3314 mg/kg
		Dermal LD50 (rabbit)	>3000mg / kg
		Inhalation LC50	No data available
Alcohols, C6-12, ethoxylated propoxylated Alcohols, C10-16, ethoxylated propoxylated	69227-66-6	Oral LD50 (rat)	> 5050mg/kg
	69227-22-1	Dermal LD50 (rabbit)	> 2000mg/kg
		Inhalation	No data available

Potential Health Effects

Inhalation: May be harmful if inhaling heated material.
 Skin: May be harmful if absorbed through skin. Causes severe skin burns.
 Eyes: Will causes eye irritation.
 Ingestion: Harmful if swallowed. Do not ingest.

Signs and Symptoms of Exposure: Irritation, redness and watering eyes

Chronic Effects of Long-term Exposure: No data available

Carcinogenicity: No component of this product at levels greater than 0.1% is identified as carcinogenic by IARC, ACGIH, or OSHA.

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

Component	CAS Number	Organism	Ecotoxicity
Nonylphenol, Ethoxylated	127087-87-0	fish fish fish	96 hr LC50 = 1 mg / L 96 hr LC50 = 7.6 mg / L 96 hr LC50 = 8.6 mg / L
Alcohols, C6-12, ethoxylated propoxylated Alcohols, C10-16, ethoxylated propoxylated	69227-66-6 69227-22-1	Algae Daphnia magna Fish	No data available 48 hr EC50 = 14.4 mg / L 96 hr LC50 = 22.5 mg / L

Ecological Effects

Persistence and Degradability:	Less than 60% after 28 days
Bioaccumulation Potential:	Not expected to bio-accumulate
Mobility in Soil:	No data available
Other Adverse Effects:	Harmful to aquatic life if released in large quantities

13. DISPOSAL CONSIDERATIONS

Disposal:	Surplus and non-recyclable material should be treated and disposed of by a licensed disposal company. Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region. Do not release into sewers or waterways.
Contaminated Packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT Information	Not regulated for transport
Proper Shipping Name:	N/A
UN Number:	N/A
Hazard Class:	N/A
Packing Group:	N/A
Reportable Quantity (RQ):	N/A
Marine Pollutant:	N/A
Note:	Not regulated for both bulk and non-bulk.

15. REGULATORY INFORMATION

US Federal

SARA 302 Components: None Listed
SARA 311/312 Hazards: Acute Health Hazard
SARA 313 Components: Does not contain any chemical components with known CAS numbers that exceed threshold reporting levels.

TSCA Inventory: All components listed as exempted

European Union

EC Inventory: All components listed as exempted

State Regulations

CA Prop 65: Contains no chemicals above the safe harbor limits

16. OTHER INFORMATION

Disclaimer: The information contained in this document was carefully compiled and is believed to be accurate. The information represents the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. However, it does not represent any guarantee of the properties of the product. Tekmar-Technical Marketing Ltd. shall not be held liable for any damages resulting from handling or from contact with the above product. It is the responsibility of the purchaser to determine the suitability of the product for their particular purposes. Nothing contained herein shall be construed to be a recommendation to use, or as a license to operate under, or to infringe any existing patents.