

MATERIAL SAFETY DATA SHEET



Date-Issued: 01/01/2013
MSDS Ref. No: MSDS-HANDTEK
Date-Revised: 06/12/2013
Revision No: 16 Part MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HANDTEK
GENERAL USE: WATERLESS ORANGE HAND CLEANER
PRODUCT CODE: HT

MANUFACTURER

Technical Marketing, Ltd. (TEKMAR)
P.O. Box 4700
Santa Barbara, CA 93140

Contact: Health & Safety
Product Stewardship: (805) 965-0704
Transportation: (800) 564-1096

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
Emergency Phone: (805) 965-0704
International (collect): ++703 527-3887

COMMENTS: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-,	4-15%	5989-27-5

3. HAZARDS IDENTIFICATION

Emergency overview

*Hazard Determination System (HDS): Health, Flammability, Reactivity

CAUSES EYE IRRITATION.



NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry Dermal contact. Eye contact. Inhalation.

Eyes	Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.
Skin	May cause skin irritation. May cause skin sensitization. May cause allergic reactions in certain individuals. Skin inflammation is characterized by itching, scaling, or reddening.
Inhalation	Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation.
Ingestion	May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic effects Prolonged or repeated contact may dry skin and cause irritation. .

4. FIRST AID MEASURES

- Eyes:** In the event of accidental contact with eyes, irrigate copious amounts of water. If irritation persists, obtain medical advice.
- SKIN (contact):** Remove contaminated clothing. Flush exposed areas with copious amounts of mild soap and water. Material may remove some of the natural oils in the skin. Product is NON-IRRITATING to skin.
- INGESTION:** May act as laxative, DO NOT INDUCE VOMITING.
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5. FIRE FIGHTING MEASURES

- FLASHPOINT AND METHOD:** >380 F.
- FLAMMABLE LIMITS:** Not determined
- FLAMMABLE CLASS:** None
- Fire hazard** None.
- Fire-Fighting Procedures** Protect from heat and flame. Use water
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6. ACCIDENTAL RELEASE MEASURES

- Spill Clean up** Cleanup of spills or accidental release of material: Soak up with suitable absorbent. Waste Disposal Methods: Incineration or sanitary landfill in accordance with local, state, and Federal regulations and consistent with good ecological practices.

In case of accident or road spill notify:
CHEMTREC in USA at 800-424-9300
CHEMTREC, other countries, at (International code)+1 703 527 3887

7. HANDLING AND STORAGE

- Handling** Put on appropriate personal protective equipment (see section 8). Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Do not ingest. Observe label precautions. Wash thoroughly after handling. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** Keep away from heat and direct sunlight. Avoid all possible sources of ignition (spark or flame). Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory:** Use NIOSH/OSHA approved respirator if TLV is exceeded.
- Ventilation:** General Mechanical
- Protective Gloves:** Volatile Resistant if skin contact is anticipated
- Eye Protection:** Splash proof goggles if handling methods warrant them
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.	Color	Opaque.
pH	6.6 - 7	Odor	Slight Orange.
Boiling Point	101°C	Vapor Pressure	<1.0 mm Hg)
Specific Gravity	1.1	Vapor Density	NA
Solubility in Water	Soluble .		

10. STABILITY AND REACTIVITY

Stability and Reactivity	The product is stable.
Incompatibility	Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Incompatible with some strong acids. Reactive with acidic clay (i.e. clay absorbent) Reactive or incompatible with the following materials: oxidizing materials.
Hazardous Decomposition Products	Will not occur.
Hazardous Polymerization	carbon oxides

11. TOXICOLOGICAL INFORMATION: (See Section 3 for Potential Health Effects).

Acute Toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
d-Limonene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

12. ECOLOGICAL INFORMATION

Environmental Effects	No known significant effects or critical hazards.
Aquatic Ecotoxicity	Not available.

13. DISPOSAL CONSIDERATIONS: (See Section 15 for Regulatory Information)

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.
Waste Stream	Code: D001 Classification: - [Hazardous waste.] Origin: - [RCRA waste.]

14. TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not applicable.	Not a DOT controlled material (United States).			
IMDG Class	Not determined.				

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65 No products were found.

Local Regulations: Not Available

16. OTHER INFORMATION

REASON FOR ISSUE: New 16 Part MSDS

APPROVED BY: Jim Brakka **TITLE:** General Manager

PREPARED BY: Product Stewardship Department

INFORMATION CONTACT: Product Stewardship Analyst

HMIS RATING

HEALTH:	1
FLAMMABILITY:	0
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	SEE SEC. 8

NFPA CODES

HEALTH:	1
FLAMMABILITY:	0
REACTIVITY:	0

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