

MATERIAL SAFETY DATA SHEET

CLEANER as used in ORANGE PEELS

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Revised 2/05/02  
Replaces 11/21/00  
Printed 3/04/02

MSDS ID: MC2375

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : HAND CLEANER MSDS ID : MC2375  
CHEMICAL NAME SYNONYMS : L0000382A CAS NUMBER : MIXTURE  
CHEMICAL FAMILY : Cleaner FORMULA : Proprietary Information

MANUFACTURED BY:  
Hydrite Chemical Co.  
300 N. Patrick Blvd.  
Brookfield, WI 53008-0948  
(262) 792-1450

EMERGENCY RESPONSE NUMBERS:  
24 Hour Emergency # - (414) 277-1311  
CHEMTREC Emergency # - (800) 424-9300

DISTRIBUTED BY: BRO-TEX INC. Phone (800) 328-2282

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	OSHA HAZARD	% BY WT.
d-Limonene	5989-27-5	Yes	3 – 7 %
Dimethyl Glutarate	1119-40-0	Yes	1 – 6 %
Dimethyl Adipate	627-93-0	Yes	0 – 3%
Dimethyl Succinate	106-65-0	Yes	0 – 3 %
Sodium Octanesulfonate	5324-84-5	Yes	0 – 2 %
Poly (oxy-1, 2-ethanediyl), alpha – (4-nonylphenyl) – omega-hydroxy-, branched	127087-87-0	Yes	0 – 1 %
Diethanolamine	111-42-2	Yes	< 1.0 %

3. HAZARDS IDENTIFICATION

PHYSICAL STATE : Liquid. COLOR : Light yellow. Opaque. ODOR : Fruity orange.

\*\*\*EMERGENCY OVERVIEW\*\*\*: WARNING!; Causes eye irritation. Prolonged or repeated contact may dry skin and cause irritation. Harmful if swallowed.

POTENTIAL HEALTH EFFECTS

ROUTES OF EXPOSURE: Eyes. Ingestion. Inhalation. Skin. TARGET ORGANS: No data.

EYE CONTACT: May cause moderate to severe irritation. SKIN CONTACT: May cause mild irritation.

Prolonged and repeated contact with skin can cause defatting and drying of the skin which may result in skin irritation and dermatitis. Contact may cause: sensitization.

SKIN ABSORPTION: No absorption hazard expected under normal use.

INHALATION: Vapors or mists may irritate: nose, throat, respiratory tract. Excessive exposure may cause: headache.

INGESTION: Do not swallow. Harmful if swallowed. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO PRODUCT: Eye disorders. Skin disorders. Upper respiratory disorders.

OTHER: None known. POTENTIAL ENVIRONMENTAL EFFECTS: See Section 12.

CANCER INFORMATION: This product does not contain greater than 0.1% of the known or potential carcinogens listed in NTP, IARC, or OSHA.

4. FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

SKIN CONTACT: Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention.

INHALATION: Remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation occurs.

INGESTION: If swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

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**5. FIRE FIGHTING MEASURES**

FLASH POINT: > 200 Deg. F. (Estimated).

FLAMMABILITY LIMITS: LEL: ~0.7%

UEL: ~8.0%

AUTOIGNITION TEMPERATURE: No Data

EXTINGUISHING MEDIA: Dry chemical. Foam. Carbon dioxide.

FIRE FIGHTING METHODS: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers.

FIRE AND EXPLOSION HAZARDS: Material will burn in fire, releasing toxic vapors. This material may produce a floating fire hazard.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide. Carbon monoxide.

**6. ACCIDENTAL RELEASE MEASURES**

SPILL CLEAN-UP PROCEDURES: Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Contain spill, place into drums for proper disposal. Soak up residue with inert absorbent material. Place in non-leaking containers for immediate disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. CAUTION: Spilled material may be slippery.

**7. HANDLING AND STORAGE**

STORAGE: Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze.

HANDLING: Avoid eye contact. Do not swallow. Avoid prolonged contact with skin. Use with adequate ventilation. Do not eat, drink, or smoke in work area.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

ENGINEERING CONTROLS: Maintain adequate ventilation. Do not use in closed or confined spaces.

RESPIRATORY PROTECTION: None required under normal use.

EYE/FACE PROTECTION: None required under normal use.

SKIN PROTECTION: Not required for normal use.

OTHER PROTECTIVE EQUIPMENT: Eye-wash station. Safety shower.

GENERAL HYGIENE CONSIDERATIONS: Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

EXPOSURE GUIDELINES: COMPONENT	-----OSHA-----		-----ACGIH-----	
	PEL	STEL/C	TWA	STEL/C
d-Limonene	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Dimethyl Glutarate	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Dimethyl Adipate	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Dimethyl Succinate	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Sodium Octanesulfonate	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Poly (oxy-1, 2-ethanediyl), alpha - (4-nonylphenyl) - omega-hydroxy-, branched	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Diethanolamine	3 ppm+	Not Estab.	2mg/m3-S	Not Estab.

NOTE: + Vacated 1989 OSHA PEL (s). S = Skin notation. \* DuPont's Acceptable Exposure Limit (AEL) is 1.5 ppm, 10 mg/m3, 8 hour TWA. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

BOILING POINT (DEG. F)	: N.D.	SPECIFIC GRAVITY	: 1.0004 @ 25C
FREEZING POINT (DEG. F)	: N.D.	% VOLATILE (WT%)	: N.D.
MELTING POINT (DEG. F)	: N.D.	EVAPORATION RATE	: N.D.
VAPOR PRESSURE (MM HG)	: N.D.	(nBuAc=1)	
VAPOR DENSITY (AIR=1)	: N.D.	VOC (WT%)	: N.D.
SOLUBILITY IN WATER	: Soluble	VOC (LBS/GAL)	: N.D.
pH	: 6.2		

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10. STABILITY AND REACTIVITY

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STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid elevated temperatures. WARNING: Do not mix this product with nitrites or other nitrosating agents because a nitrosamine may be formed. Nitrosamines may cause cancer.

INCOMPATIBILITY: Strong oxidizing agents. Peroxides. Halogens or halogen compounds. Acidic agents. Acidic clays. Iodine pentafluoride. Vinyl chloride. Acids. Alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxides. Carbon dioxide. Unidentifiable organic materials.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

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11. TOXICOLOGICAL INFORMATION

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LD50 ORAL : No Data

LD50 SKIN : No Data

LC50 INHALATION : No Data

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12. ECOLOGICAL INFORMATION

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ECOTOXICOLOGICAL INFORMATION: No data available.

CHEMICAL FATE INFORMATION: No data available.

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13. DISPOSAL CONSIDERATIONS

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HAZARDOUS WASTE NUMBER: N.A.

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

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14. TRANSPORT INFORMATION (Not meant to be all inclusive)

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DOT (Department of Transportation):

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (CONTAINS DIETHANOLAMINE)

Hazard Class : 9

Identification Number : UN3082

Packing Group : PGIII

Label Required : Class 9

Note: This material is not DOT regulated in shipments of less than 32,258#.

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15. REGULATORY INFORMATION

FEDERAL REGULATIONS:

TSCA INVENTORY STATUS:

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA TITLE III SECTION 311/312 CATEGORY:

IMMEDIATE (ACUTE) HEALTH HAZARD : YES  
 DELAYED (CHRONIC) HEALTH HAZARD : YES  
 FIRE HAZARD : NO  
 SUDDEN RELEASE OF PRESSURE HAZARD : NO  
 REACTIVE HAZARD : NO

SARA SECTION 302/304/313/HAP:

COMPONENT	RQ (LBS) (*1)	RQ (LBS) (*2)	TPQ (LBS) (*3)	SEC 313 HAP (*4)	(*5)
d-Limonene	N.A.	N.A.	N.A.	NO	NO
Dimethyl Glutarate	N.A.	N.A.	N.A.	NO	NO
Dimethyl Adipate	N.A.	N.A.	N.A.	NO	NO
Dimethyl Succinate	N.A.	N.A.	N.A.	NO	NO
Sodium Octanesulfonate	N.A.	N.A.	N.A.	NO	NO
Poly (oxy-1, 2-ethanediyl), alpha - (4-nonylphenyl) - omega-hydroxy-, branched	N.A.	N.A.	N.A.	NO	NO
Diethanolamine	100	N.A.	N.A.	YES	YES

FOOTNOTES

- \*1 = CERCLA Reportable Quantity
- \*2 = SARA Reportable Quantity
- \*3 = SARA EHS Threshold Planning Quantity
- \*4 = SARA 313 Toxic Chemical/Category
- \*5 = U.S. EPA Hazardous Air Pollutant

STATE REGULATIONS:

CALIFORNIA – The following components are listed under Prop 65:

This product may contain a detectable level of chemical (s) subject to California’s Proposition 65.

WISCONSIN – The following components are listed as a Wisconsin HAP: None.

16. OTHER INFORMATION

HMIS RATING SYSTEM		NFPA RATING SYSTEM	
Health	: 2*	Health	: 1
Flammability	: 0	Flammability	: 0
Reactivity	: 0	Reactivity	: 0
* = Chronic Health Hazard		Special Hazard	: None

MSDS ABBREVIATIONS: N.A. = Not Applicable  
 N.D. = Not Determined  
 HAP = Hazardous Air Pollutant  
 VOC = Volatile Organic Compound  
 C = Ceiling Limit  
 N.E./Not Estab. = Not Established

MSDS PREPARED BY: KJV

REASON FOR REVISION: Changes made in Sections 2, 8, & 15.

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The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as a warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

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