

REC'D JAN 03 2000

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ODC-Free Cleaner & Degreaser
Item No.: 20162/20260
Product Type: Hydrocarbon blend

326
50V00006
50V00019

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Hydrotreated heavy naphtha	64742-48-9	75-85
d-Limonene	5989-27-5	15-25

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Hydrotreated heavy naphtha d-Limonene	5mg/m3 TWA mist None	5mg/m3 TWA mist None	400 ppm 30 ppm
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
Hydrotreated heavy naphtha	10 mg/m3 mist	None	

3. HAZARDS IDENTIFICATION

Toxicity: High concentrations of vapors may be mildly irritating to lungs and mucous membranes of the nose and throat. Vapors will irritate and may harm eyes. Contact may defat skin. Ingestion causes irritation and effects similar to inhalation. If swallowed, may be aspirated into the lungs resulting in inflammation and possible fluid accumulation.

Primary Routes of Entry: Inhalation, eye and skin contact.

Signs and Symptoms of Exposure: Inhalation: dizziness, excitation, headache, drowsiness, incoordination, and anesthesia. Eye contact: tearing, swelling, irritation. Skin contact: irritation, reddening, swelling, rash. Ingestion: irritation, dizziness, excitation, drowsiness, incoordination, anesthesia, and headache.

Existing Conditions Aggravated by Exposure: Skin disorders, asthma-like disorders

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP IARC OSHA
Hydrotreated heavy naphtha d-Limonene	NTO IRR	NO NO NO NO N/A NO

Abbreviations

N/A Not Applicable
NTO No Target Organs
IRR Irritant

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get medical attention immediately.

Inhalation: Remove to fresh air. If victim experiences continued breathing difficulties, administer oxygen until medical assistance can be rendered. If breathing stops, begin artificial respiration and obtain immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing. Obtain medical attention if irritation persists.

Eye Contact: Immediately flush at least 15 minutes with water. Obtain medical attention.

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5. FIRE FIGHTING MEASURES

Flash Point: 120°F Method: Tag Closed Cup
 Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical (B-C)
 Special Firefighting Procedures: The use of self contained breathing apparatus is recommended for fire fighters. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool. Avoid spreading burning liquid with water used for cooling purposes.

Hazardous Products formed by Fire or Thermal Decomposition: Oxides of carbon.

Unusual Fire or Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drums (even empty) because product or residues can ignite explosively. Keep work areas free of hot metal surfaces and other sources of ignition.

Explosive Limits:
 (% by volume in air) Lower 0.7%
 (% by volume in air) Upper 4.4%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Spilled liquid is combustible and can be ignited by heat, sparks, flames, or other sources of ignition. REMOVE all sources of ignition. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Keep sources of ignition and hot metal surfaces isolated from the spill. Maintain adequate ventilation. Do not allow liquid to enter sewers, storm drains, other unauthorized treatment facilities, and natural waterways. Use explosion-proof equipment. Absorb spilled liquid with inert material and place in a closed chemical waste container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Do not store near fire, sparks, or flame. Do not puncture or incinerate container.
 (Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
 Handling: Use with adequate ventilation. Avoid prolonged skin contact. Keep away from eyes. Avoid breathing vapors. Do not use near heat, sparks, open flame or other sources of ignition. Keep out of the reach of children.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses, chemical goggles, and/or face shields.
 Skin: Impermeable nitrile gloves and aprons.
 Ventilation: General mechanical ventilation may be sufficient to keep vapor/mist concentrations within specified time-weighted TLV ranges. If general ventilation proves inadequate to maintain safe vapor/mist concentrations, supplemental local exhaust may be required.
 Respiratory: NIOSH approved respirator if ventilation is inadequate.
 See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Slightly hazy liquid
 Odor: Citrus
 Boiling Point: 310°F-410°F
 pH: Does not apply
 Solubility in Water: Insoluble

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Product Name: ODC-Free Cleaner & Degreaser
 Item No.: 20162 / 30260
 Specific Gravity: 0.72-0.78
 Volatile Organic Compound (EPA Method 24): 100%; 720-780 grams per liter
 Vapor Pressure: 20.8 mm Hg at 72.5°F
 Vapor Density: Heavier than air
 Evaporation Rate (Ether = 1): Not available

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10. STABILITY AND REACTIVITY

Stability: Stable
 Hazardous Polymerization: Will not occur
 Incompatibility: Strong oxidizing agents, strong acids or bases, selected amines.
 Conditions to Avoid: Do not use or store near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120°F may cause container to burst.
 Hazardous Decomposition Products (non-thermal): Hydrocarbons

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
 EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
 Domestic Ground Transport
 Proper Shipping Name: Unrestricted (Not more than 450 liters); Petroleum distillates, n.o.s. (More than 450 liters)
 Hazard Class or Division: Unrestricted (Not more than 450 liters); Combustible liquid (More than 450 liters)
 Identification Number: None (Not more than 450 liters); UN 1268 (More than 450 liters)
 Marine Pollutant: None
 IATA
 Proper Shipping Name: Consumer Commodity (Not more than 500 ml); Petroleum distillates, n.o.s. (More than 500 ml)
 Class or Division: Class 9 (Not more than 500 ml) Class 3, Packing Group III (More than 500 ml)
 UN or ID Number: ID 8000 (Not more than 500 ml); UN 1268 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65: Not available

16. OTHER INFORMATION

Estimated NFPA(R) Code:
 Health Hazard: 1
 Fire Hazard: 2
 Reactivity Hazard: 0
 Specific Hazard: Does not apply

Estimated HMIS(R) Code:
 Health Hazard: 1
 Flammability Hazard: 2
 Reactivity Hazards: 0
 Personal Protection: See Section 8.

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 HMIS is a registered trademark of the National Paint and Coatings Assn.

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