

MATERIAL SAFETY DATA SHEET

INDUSTRIAL CLEANING EQUIPMENT & SUPPLY
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IDENTITY (As listed on label): BIG ORANGE

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components:	OSHA PEL	ACGIG TVL	% RANGE
D'Limonene (Orange oil)	Unknown		

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 212 Deg. F	Specific Gravity (H ₂ O=1): 0.975
Vapor Pressure: 0.2 @ 68 F	Melting Point: approx. 30 Deg. F
Vapor Density (air=1): 2.1	Evaporation Rate (Water=1): 1.0

Solubility in Water: Complete

Appearance and Odor: Clear orange liquid with mild citrus odor.

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point(Method Used):	Flammable Limits:	LEL:	UEL:
None		N/A	N/A

Extinguishing Media: Not applicable

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

SECTION V – REACTIVITY DATA

Stability: X

Conditions to Avoid: Freezing

Incompatibility (Materials to Avoid): Strong oxidizers and acids.

Hazardous Decomposition or Byproducts:

Hazardous Polymerization: Will not occur. Conditions to avoid: None

SECTION VI – HEALTH HAZARD DATA

Acute Effects:

Inhalation: Yes

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Eyes: Yes

Skin: Yes

Ingestion: Yes

Chronic Effects: Direct contact with eyes may cause irritation. May cause gastrointestinal irritation and irritation of mouth and throat if ingested. Prolonged use may cause skin irritation. Respiratory irritation may occur through excessive exposure.

Carcinogenicity: NTP: No ARC Monographs: No OSHA Regulated: No

Signs and systems of exposure:

Eyes: Redness and swelling

Skin: Irritation, redness, dryness, coughing and sore throat

Ingestion: May cause pain or discomfort in the mouth, throat and stomach

Medical Conditions Generally Aggravated by Exposure: May aggravate asthma and inflammatory or fibrotic pulmonary disease. Can aggravate dermatitis

Emergency and First Aid Procedures:

Eyes: Flush with large amounts of water, lifting lids

Skin: Wash with soap and water. Launder clothes before reuse

Ingestion: Drink 2 glasses of water

Inhaled: Remove to fresh air

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: For small spills, flush to sanitary sewer with plenty of water. Large spills, soak up on solid absorbent and shovel into containers for disposal.

Waste Disposal Method: In accordance with federal, state and local regulations.

Precautions to be taken in handling and storing: Store between 40 and 120 Deg. F

Other Precautions: None

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type):

Ventilation: Local Exhaust:

Mechanical (General): Normally sufficient

Protective Gloves: Neoprene or Butyl rubber

Eye Protection: Goggles

Other Protective Clothing or Equipment: None

Work/Hygienic Practices: Avoid breathing spray mist

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