

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT INFORMATION

Name: ORANGE SAFE
Subtitle: D-LIMONENE BASED SOLVENT CLEANER
Supplier's Name: Banner Labs, Inc.

Chemical Family: N/A
Formula: N/A
Phone Number: (713) 896-8778

NPCA Hazardous Materials Identification System

Health	1
Flammability	1
Reactivity	0
Maximum Personal Protection	A

Supplier's Address: 11875 W Little York, 202, 77041
Proper Shipping Name: Combustible Liquid, n.o.s. (Petroleum Distillates)
Hazard Class: Combustible Liquid, 3, UN 1993 III

SECTION 2 - INGREDIENTS

NAME	CAS#	Wt%	PEL	TWA-TLV	STE-TLV	CARCINOGEN
Orange terpene(D-limonene)	5989-27-5	20 to 25	N/A	N/A	N/A	No

NO OTHER HAZARDOUS INGREDIENTS ARE CONTAINED IN THIS PRODUCT

SECTION 3 - PHYSICAL DATA

Boiling Range: 425+F
Vapor Pressure: <1.77
% Volatile: 100
Solubility: Negligible
Physical Description: Clear liquid with pleasant citrus scent

Specific Gravity: 0.82
Vapor Density: >4
pH: N/A
Evaporation Rate: <.1

SECTION 5 - REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Strong oxidizers, caustic, and active metals
Hazardous Decomposition Products: Acrid smoke and fume. Burning generates CO, CO2

Hazardous Polymerization: Will not occur

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point (Method Used TCC): 170F
Upper Explosive Limit: 6.1
Lower Explosive Limit: .7
Extinguishing Media: Foam, CO2 or dry chemical

Special Fire Fighting Procedures: SCBA recommended. Smother to exclude air. Do not use water.
Unusual Fire & Explosion Hazards: Combustible liquid. Handle as oil fire, Class B procedures.

SECTION 6 - STORAGE AND HANDLING INFORMATION

Precautions to be taken in Handling & Storage:
Keep out of reach of children. For use by trained personnel only.
Keep container closed during storage. For institutional and industrial use only.

SECTION 7 - HEALTH HAZARDS

EFFECTS OF OVEREXPOSURE

Primary Route of Entry:

Skin:
Defatting to skin on repeated contact.

Eyes:
Eye irritant. May cause redness and swelling of the conjunctiva.

Inhalation:
Vapor pressure is low and vapors are usually not a problem.

Ingestion:
May be irritating to the gastrointestinal system. Large doses can cause vomiting and diarrhea.

FIRST AID PROCEDURES

Skin:
Remove contaminated clothing. Flush exposed area with large quantities of water. Seek medical attention if irritation persists.

Eyes:
Flush eyes with large quantities of water. Seek medical attention if irritation persists.

Inhalation:
Get to fresh air, if breathing is difficult. Seek medical attention if symptoms persist.

Ingestion:
Do not induce vomiting. Rinse mouth with water and drink one glass of water. Seek medical attention immediately.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Information: Not normally required
Protective Gloves: Chemical resistant recommended
Other Protective: Chemically resistant aprons

Ventilation: Local exhaust should be adequate.
Eye Protection: Safety glasses recommended

SECTION 9 - SPILL OR LEAK PROCEDURE

Steps to be taken in case Material is Released or Spilled:
Mop up or otherwise absorb and hold for disposal.

Waste Disposal Method:
Any method in accordance with local applicable law

Prepared According to 29 CFR 1910.1200

Product# : 0745

Revised: November 25, 2014