




This brief provides a general overview of the **Safety Data Sheet** requirements in the Hazard Communication Standard OSHA's 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200).

Section 1 ~ Identification

Identity (As Used On Label and List) Q2031/G3098 Lift Out	Date Prepared: 01-31-2016
Company Information: OMEGA INDUSTRIAL SUPPLY, INC	Emergency Telephone Number: 1-800-424-9300
Address (Number, Street, Suite/Apt#) 101 Grobric Ct #1	Telephone Number for Information: 1-800-571-7347
(City, State, and Zip Code) Fairfield, CA 94534	Signature of Prepare (Optional) REGULATORY DEPT.

Section 2 ~ Hazard(s) Identification

Overview	Flammable liquids, acute toxicity, skin irritation, eye irritation, skin sensitization, acute aquatic toxicity.		
Label elements			
	<i>Signal Word:</i> Warning.		
Hazard Statement	H226 Flammable liquid and vapor H303 May be harmful if swallowed H315 Causes skin irritation	H317 May cause an allergic skin reaction H319 Causes serious eye irritation H400 Very toxic to aquatic life	
Precautionary Statement Prevention	H273 Avoid release to the environment P280 Wear protective gloves	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Potential Health Effects	Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Skin: May be harmful if absorbed through the skin. Causes irritation.	Eyes: Causes eye irritation. Ingestion: May be harmful if swallowed.	

Section 3 ~ Composition/Information on Ingredients

Components (Specific Chemical Identity, Common Name(s))	CAS No.	ACGIH TLV	NIOSH TWA	%(Wt.)
d-Limonene	5989-27-5	2 mg/m3	10 mg/m3	2 – 4%
Odorless Mineral Spirits	64742-88-7	200 mg/m3	200 mg/m3	30 – 50%
2 – Methyl Pyrillidone	7732-18-5 & 872-50-4	2 mg/m3	10 mg/m3	30 – 50%

Section 4 ~ First Aid Measures

Eyes — If product comes in contact with eyes, flush eyes with luke warm water for 30 minutes and consult a physician if irritation persists.

Skin— If skin comes in contact with product: Flush exposed area with cool water for 15 minutes. Consult a physician if irritation persists.

Inhalation — Remove to clean atmosphere and consult physician immediately.

Ingestion — DO NOT INDUCE VOMITING. Have patient drink large amounts of milk or plain water. Consult a physician immediately.

Protection of First Responders — No action shall be taken involving personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it or wear gloves.

Note to Physician — Treat symptomatically. Contact poison treatment specialist if large quantities have been ingested or inhaled.

Section 5 ~ Fire Fighting Measures

Conditions of Flammability – Flammable in the presence of source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface.

Suitable Extinguishing Media – Use dry chemical or carbon dioxide.

Hazardous Thermal Decomposition Products – Hazardous decomposition products formed under fire conditions: Carbon oxides.

Specific Fire – Fighting Methods – Promptly isolate the scene by removing all persons from the area if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment And Precautions For Firefighters – Wear self-contained breathing apparatus for fire fighting if necessary.

Further Information — Use water spray to cool unopened containers.

Section 6 ~ Accidental Release Measures

Personal Precautions, Protective Equipment And Emergency Procedures –Initiate company's spill response procedures immediately. Keep people out of the area. Put on appropriate personal protective equipment (See section 8). Do not touch or walk through spilled material.

Methods And Materials For Containment And Cleaning Up – Follow company's spill response procedures. Keep people away from spill area. Put on appropriate personal protective equipment (See Section 8). Absorb / Neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for a final clean-up.

Environmental Precautions - Avoid contact with spilled material and prevent runoff contact with soil and surface waterways.

Section 7 ~ Handling and Storage

Precautions For Safe Handling – Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes. Use only in adequately ventilated areas. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities – Keep out of the reach of children. Keep container tightly closed. Store between the following temperatures: -25°C and 40°C.

Section 8 ~ Exposure Controls/Personal Protection

Appropriate engineering controls – Use only in adequate ventilation. If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Exposure Guideline - Citrus Terpenes —8h TWA (Time Weighted Average) = 30ppm (AIHA Standard)

Respiratory Protection– Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEEN (EU)

Skin Protection Other– Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance.

Hand Protection– Use chemical resistant, impervious gloves.

Eye/face protection– Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US or EN 166 (EU).

General hygiene considerations – Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using lavatory and at the end of working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 ~ Physical Chemical Properties

Boiling Point	390° - 480°F	Specific Gravity	0.81 +/- 0.02
Vapor Pressure	< 2 mmHg at 20°C (68°F)	Melting/Freezing Point	-
Vapor Density	0.838 to 0.843 at 20°C (68°F)	Evaporation Rate (Butyl Acetate = 1)	Not Determined
Solubility in Water	Insoluble	pH	Not applicable
Appearance and Odor — Clear liquid with petroleum odor.		VOC%	-
Flash Point (Method Used): 76°C (170°F) - closed cup	Flammability: Class 3A	Auto Ignition Temperature: 440°F	Explosion Limits: 0.7% (V) - 6.1% (V)

Section 10 ~ Stability and Reactivity

Stability: Stable under recommended storage conditions.	Conditions to Avoid – Heat, flame, sparks.
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Possibility of Hazardous Reactions: To prevent oxidation prevent long term exposure to air. If storing in a partially filled container fill headspace with an inert gas such as nitrogen.

Incompatibility (Materials to Avoid) – Extremely reactive or incompatible materials such as acids. Reactive or incompatible with the following materials: Oxidizers. Slightly reactive or incompatible with the following materials: Metals.

Hazardous Decomposition or Byproducts – Hazardous decomposition products formed under fire conditions. Carbon oxides.

Section 11 ~ Toxicological Information**Information on likely routes of exposure**

Routes of Exposure – Skin, Eye, Inhalation, Ingestion.

Ingestion - Adverse symptoms may include the following: Stomach pains, diarrhea.

Inhalation – Adverse symptoms may include the following: coughing, respiratory tract irritation.

Skin contact – Adverse symptoms may include the following: Pain or irritation, redness, rash. Blistering may occur.

Eye contact – Adverse symptoms may include the following: Pain or irritation, redness, watering.

Acute Effects — Citrus terpenes have been shown to have low oral toxicity (LD50 > 5 g/kg) and low dermal toxicity (LD50 > 5g/kg) when tested on rabbits. Citrus terpenes also showed low toxicity by inhalation (RD50 > 1g/kg) when tested on mice. The skin irritancy of limonene in guinea pigs and rabbits considered moderate and low, respectively. Inhalation may cause irritation of the nose, throat, and respiratory tract.

Chronic Effects — This product is not classified as a carcinogen by OSHA, IARC, ACGIH, or NTP. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This product does not contain known reproductive or developmental toxins. Prolonged or repeated exposures can cause drying or dermatitis of skin improper storage and handling may lead to the formation a possible skin sensitizer.

Section 12 ~ Ecological Information

Ecotoxicity: There is no information available at this time for this product. However, a spill may produce significant toxicity to aquatic organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade terpenes, decreasing their toxicity to fish. When spilled, this product may act as an oil, causing a film sheen, emulsion or sludge at or beneath the surface of a body of water.

Persistence and degradability: Product is expected to be readily biodegradable. Bioaccumulation/Accumulation: No appropriate bioconcentration is expected into the environment. Mobility in Environment: Citrus terpenes volatilize rapidly.

Acute and Terrestrial Toxicity

Product/Ingredient Name	Results	Species	Exposure
d-limonene – (At this time there is no data available concerning the environmental impact of this ingredient).			
Odorless Mineral Spirits	Acute LC50 -1000 mg/l	Rainbow Trout	96 hours
	Acute LC – 3000 mg/kg	Rat	24 hours
2 Methyl Pyrillidone	Acute LC50 – 700 mg/l	Rainbow Trout	96 hours
	Acute LC50 – 2700 mg/kg	Rat	24 hours

Other adverse effects: No known significant effects or critical hazards.

Section 13 ~ Disposal Considerations

Disposal Methods: Burn in chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

RCRA Classification: None

Section 14 ~ Transport Information

US Depart. of Transportation (DOT)		Water Transportation (IMDG)		Air Transportation (IATA)	
Proper Shipping Name:	Terpene Hydrocarbons, N.O.S	Proper Shipping Name:	Terpene Hydrocarbons, N.O.S	Proper Shipping Name:	Terpene Hydrocarbons, N.O.S
Class:	3	Class:	3	Class:	3
Packing Group:	III	Packing Group:	III	Packing Group:	III
UN Number:	2319	UN Number:	2319	UN Number:	2319
Label/Placard:	Exception \$173,150(f) applies.	EMS-No:	F-E, S-D	EMS-No:	F-E, S-D
Marine Pollutant	Dipentene	Marine Pollutant:	Dipentene		
Poison Inhalation Hazard:	No				
ERG No.:	128				

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Section 15 ~ Regulatory Information

Global Inventories

This product is included in the following inventories:

- USA (TSCA) 1,2,3
- Canada (DSL) 1,2,3
- Europe (EINECS/ELINCS/Polymer/NLP) 4
- Australia (AICS) 1,2
- Korea (KECL) 1,2,3
- Phillipines (PICCS)
- Japan (ENCS) 1

- Listed as CAS 5989-27-5 (d-Limonene)
- Listed as CAS 68647-72-3 (Terpenes and Terpenoids, sweet orange-oil)
- Listed as CAS 68608-34-4 (Terpenes and Terpenoids, citrus-oil)
- Listed as CAS 8028-48-6 (Orangem ext.)

The United States FDA lists d-Limonene as GRAS in 21 CFR sections 182.20 and 182.6.

d-Limonene is a 100% natural, biodegradable product extracted from the peel of citrus fruit.

Proposition 65: California Safe Drinking Water and Toxic Information Act of 1986

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

SARA Title III (Section 313): This substance contains no material s subject to the reporting requirements of SARA Title III (Section 313).

Section 16 ~ Other Information

	NFPA	HMIS	Key
HEALTH	2	2	4= Severe
FLAMMABILITY	2	2	3= Serious
REACTIVITY	0	0	2= Moderate
OTHER/PROTECTION	-	B	1= Slight 0= Minimal

Disclaimer: This above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.