

Printing date 06/01/2015 Reviewed on 06/01/2015

1 Identification

· Product identifier

· Trade name: Orange Terpenes

· Article number: No other identifiers

· CAS Number: 8028-48-6

· Recommended use and restriction on use

· Recommended use:

Product Component Cleaner solvent

Degreaser Solvents

· Restrictions on use: See Sections 8 and 10 for further information.

Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier: Interstate Commodities Corp. 117 N. Main Street, Suite 2B Greenville, SC 29601 864-640-8635 info@icccitrus.com

· Emergency telephone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585 Distributed By: R.E. CARROLL, INC. 1570 NORTH OLDEN AVENUE EXT. EWING, N.J. 08638-8204 USA T: 609-695-6211/800-257-9365

F: 609-695-0102 orders@recarroll.com

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Additional information:

Repeated exposure may cause skin dryness or cracking.

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

(Contd. on page 2)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 1)

- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms







GHS02 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

orange terpenes

· Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P210 Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.

P261 Avoid breathing mist/vapors/spray.
P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection.

P233 Keep container tightly closed.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.

P362 Take off contaminated clothing and wash before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P331 Do NOT induce vomiting.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Hazard description:
- WHMIS-symbols:

As of 11 February 2015, the current WHMIS system is being replaced by the GHS system. This is the classification under the older system.

B3 - Combustible liquid

D2B - Toxic material causing other toxic effects





(Contd. on page 3)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 2)

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Substances

• CAS No. Description 8028-48-6 orange terpenes

· Additional information:

The product may be alternatively identified by the following CAS numbers:

68647-72-3 (Terpenes and terpenoids, sweet orange oil)

8008-57-9 (Orange peel oil, sweet (Citrus sinensis (L.) Osbeck))

· Dangerous components: None in reportable quantities.

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

(Contd. on page 4)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 3)

· Information for doctor:

· Most important symptoms and effects, both acute and delayed

Allergic reactions

Irritant to skin and mucous membranes.

Dizziness

Breathing difficulty

Gastric or intestinal disorders

· Danger

Danger of impaired breathing.

Repeated exposure may cause skin dryness or cracking.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Danger of pulmonary edema.

Danger of pneumonia.

Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary edema.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Contains orange terpenes. May produce an allergic reaction.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water stream.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water fog.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

(Contd. on page 5)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 4)

· Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Prevent formation of aerosols.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Keep away from heat and direct sunlight.

Rags, metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed metal container rated for flammable waste.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty receptacles.

The product forms flammable fumes when heated.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 6)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 5)

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- Engineering controls: No further relevant information available.
- · Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Safety glasses

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment

No further relevant information available.

· Risk management measures

See Section 7 for additional information.

No further relevant information available.

(Contd. on page 7)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 6)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid

Color: Clear to straw color.

· Odor: Citrus.

Odor threshold: Not determined.pH-value: Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:

Flash point:

Flammability (solid, gaseous):

Auto-ignition temperature:

Decomposition temperature:

Undetermined.

146 °C (295 °F)

Not applicable.

237 °C (459 °F)

Not determined.

· **Auto igniting:** Product is not self-igniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/

vapor mixtures are possible.

· Explosion limits:

Lower: 0.7 Vol % 6.1 Vol % 6.1 Vol % Vapor pressure at 20 °C (68 °F): <2 mmHq

• **Density at 20 °C (68 °F):** 0.840 g/cm³ (7.01 lbs/gal)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic:Not determined.Kinematic:Not determined.VOC content:>95% (by volume)

· Other information No further relevant information available.

(Contd. on page 8)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 7)

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Flammable.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 >2000 mg/kg (rat) >5000 mg/kg (rabbit)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Not classified as a primary irritant.
- · Sensitization:

Sensitizing effect through inhalation is possible with prolonged exposure.

Sensitization possible through skin contact.

· Subacute to chronic toxicity:

Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

May be fatal if swallowed and enters airways.

· Additional toxicological information:

Danger through skin absorption.

Toxic and/or corrosive effects may be delayed up to 24 hours.

- · Carcinogenic categories
- NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Probable Routes of Exposure

Inhalation.

Eye contact.

(Contd. on page 9)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 8)

Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity):

May be fatal if swallowed and enters airways.

Irritating to skin.

· Repeated Dose Toxicity:

May cause damage to organs through prolonged or repeated exposure.

Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

The material is harmful to the environment.

Toxic for aquatic organisms

- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- **Ecotoxical effects:**
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Avoid transfer into the environment.

Very toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

· Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Can be reused after reprocessing.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 10)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 9)

14 Transport information

· UN-Number

· **DOT** UN2319

Reclassified as combustible under US DOT regulations. Labeling is only required for single packages ≥119 US gal / 450 L to include Combustible symbol and Proper Shipping

Name.

· ADR, IMDG, IATA UN2319

UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

• **DOT** Terpene hydrocarbons, n.o.s.

·**ADR** 2319 TERPENE HYDROCARBONS, N.O.S.,

ENVIRONMENTALLY HAZARDOUS

· IMDG TERPENE HYDROCARBONS, N.O.S., MARINE

POLLUTANT

• IATA TERPENE HYDROCARBONS, N.O.S.

· Transport hazard class(es)

· DOT

· Class 3 Flammable liquids

· Label

· ADR





· Class 3 (F1) Flammable liquids

· Label

· IMDG





· Class 3 Flammable liquids

· Label

·IATA



· Class 3 Flammable liquids

· Label

· Packing group

DOT, ADR, IMDG, IATA

(Contd. on page 11)

(Contd. of page 10)

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

· Environmental hazards: · Marine pollutant:

Yes

Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special precautions for user Warning: Flammable liquids

· Danger code (Kemler): · EMS Number: F-E.S-D

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

 Excepted quantities (EQ) Code: E1

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· IMDG

 Excepted quantities (EQ) Code: E1

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN2319, Terpene hydrocarbons, n.o.s., UN "Model Regulation":

ENVIRONMENTALLY HAZARDOUS, 3, III

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

(Contd. on page 12)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

(Contd. of page 11)

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· IARC (International Agency for Research on Cancer)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

State Right to Know Listings

Substance is not listed.

- · Canadian substance listings:
- · Canadian Domestic Substances List (DSL)

Substance is listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

Substance is not listed.

· Canadian Ingredient Disclosure list (limit 1%)

Substance is not listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 06/01/2015 / -

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

(Contd. on page 13)

Printing date 06/01/2015 Reviewed on 06/01/2015

Trade name: Orange Terpenes

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

(Contd. of page 12)