

## SAFETY DATA SHEET

Creation Date 25-Mar-2014 Revision Date 25-Mar-2014 Revision Number 1

### 1. Identification

Product Name Citrus Clearing Solvent

Cat No.: 8301

Synonyms Orange Terpenes

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Richard Allan Scientific

A Subsidiary of Thermo Fisher Scientific

4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270 Emergency Telephone Number Chemtrec US: (800) 424-9300 Chemtrec EU: 001 (202) 483-7616

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 3

## **Label Elements**

### Signal Word

Warning

### **Hazard Statements**

Flammable liquid and vapor



#### **Precautionary Statements**

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

**Storage** 

Store in a well-ventilated place. Keep cool

**Disposal** 

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None identified

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## 3. Composition / information on ingredients

#### Haz/Non-haz

Component	CAS-No	Weight %		
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	100		

### 4. First-aid measures

**General Advice** If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

If symptoms persist, call a physician.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Call a physician immediately. SPEEDY ACTION IS CRITICAL, GET MEDICAL AID

IMMEDIATELY.. If symptoms persist, call a physician. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention. Immediate

medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If

symptoms persist, call a physician.

Ingestion Do not induce vomiting. Obtain medical attention. Clean mouth with water and drink afterwards

plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth

to an unconscious person. Consult a physician.

Most important symptoms/effects Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

Notes to Physician Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire

with water spray.

Unsuitable Extinguishing Media Water may be ineffective

**Flash Point** 44.4°C / 111.9°F

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available.

**Upper** 6.1 vol % **Lower** 0.7 vol %

Sensitivity to Mechanical

**Impact** 

No information available

Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	2	0	N/A

## 6. Accidental release measures

Personal Precautions Remove all sources of ignition. Use personal protective equipment. Do not get in eyes, on skin,

or on clothing. Take precautionary measures against static discharges. Evacuate personnel to

safe areas. Keep people away from and upwind of spill/leak.

Environmental Precautions Should not be released into the environment. Do not flush into surface water or sanitary sewer

system. Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. See Section 12 for additional ecological Information.

Methods for Containment and Clean

Up

Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Keep in suitable, closed containers for disposal.

### 7. Handling and storage

**Handling** Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective

equipment. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Pay attention to flashback. No

information available.. Do not take internally.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat

and sources of ignition. Flammables area. Keep containers tightly closed in a cool, well-

ventilated place. Keep in properly labeled containers.

8. Exposure controls / personal protection

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Use explosion-proof **Engineering Measures** 

electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are

close to the workstation location.

**Personal Protective Equipment** 

**Eye/face Protection** Tightly fitting safety goggles. Face-shield.

Skin and body protection Long sleeved clothing. Apron. Impervious gloves.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN **Respiratory Protection** 

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and

clothing.

9. Physical and chemical properties

**Physical State** Liquid

Clear Colorless **Appearance** 

Odor Characteristic sweet **Odor Threshold** No information available.

No information available. Ηq No data available Melting Point/Range

**Boiling Point/Range** 176°C / 348.8°F **Flash Point** 44.4°C / 111.9°F

**Evaporation Rate** No information available. Flammability (solid,gas) No information available

Flammability or explosive limits

6.1 vol % Upper Lower 0.7 vol %

**Vapor Pressure** < 3 mmHg @ 14.4 °C 4.7

**Vapor Density** 

**Relative Density** No information available. Solubility Insoluble in water

No data available Partition coefficient; n-octanol/water

No information available. **Autoignition Temperature Decomposition temperature** No information available. **Viscosity** No information available.

10. Stability and reactivity

**Reactive Hazard** None known, based on information available.

Stability Stable under normal conditions.

Incompatible products. Heat, flames and sparks. **Conditions to Avoid** 

**Incompatible Materials** Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing

## 11. Toxicological information

### **Acute Toxicity**

**Product Information**No acute toxicity information is available for this product

Oral LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Dermal LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Vapor LC50Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component Information** 

**Toxicologically Synergistic** No information available.

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** Irritating to eyes and skin

Sensitization May cause sensitization by skin contact

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Terpenes and	68647-72-3	Not listed				
Terpenoids, sweet						
orange-oil						

Mutagenic EffectsNo information available.Reproductive EffectsNo information available.Developmental EffectsNo information available.

**Teratogenicity** No information available.

STOT - single exposure None known.
STOT - repeated exposure None known.

**Aspiration hazard** No information available.

Symptoms / effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated..

## 12. Ecological information

### **Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

Mobility

No information available

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

## 14. Transport information

DOT

**UN-No** UN2319

Proper Shipping Name TERPENE HYDROCARBONS, N.O.S.

Hazard Class 3
Packing Group III

TDG

**UN-No** UN2319

Proper Shipping Name TERPENE HYDROCARBONS, N.O.S.

Hazard Class 3
Packing Group III

**IATA** 

UN-No UN2319

**Proper Shipping Name** TERPENE HYDROCARBONS, N.O.S.

Proper technical name d'limonene

Hazard Class 3 Packing Group III

IMDG/IMO

UN-No UN2319

Proper Shipping Name TERPENE HYDROCARBONS, N.O.S. Hazard Class 3

Hazard Class 3
Packing Group III

# 15. Regulatory information

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Terpenes and Terpenoids, sweet	Х	Χ	-	-	-		Х	-	Х	Χ	Χ
orange-oil											

#### Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Not applicable

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### **U.S. Federal Regulations**

TSCA 12(b) Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act Not applicable

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

**SARA 313** 

**CERCLA**Not Applicable

**California Proposition 65**This product does not contain any Proposition 65 chemicals.

State Right-to-Know Not applicable

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### **Other International Regulations**

Mexico - Grade Moderate risk, Grade 2

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class D2B Toxic materials

B2 Flammable liquid



## 16. Other information

Prepared By Regulatory Affairs

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**Revision Summary**This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**