

# SAFETY DATA SHEET

Revision Date 26-Jan-2015 Creation Date 10-Aug-2010 **Revision Number** 1 1. Identification **Product Name Citrus Cleaning Solvent** Cat No. : 22050122 Synonyms **Orange Terpenes** Laboratory chemicals. **Recommended Use** Uses advised against No Information available Details of the supplier of the safety data sheet Company **Emergency Telephone Number** Richard Allan Scientific Chemtrec US: (800) 424-9300 A Subsidiary of Thermo Fisher Scientific Chemtrec EU: 001 (202) 483-7616 4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270 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 Unknown Acute Toxicity .? % of the mixture consists of ingredients of unknown toxicity.

### 3. Composition / information on ingredients

Component		CAS-No	Weight %		
Terpenes and Terpenoids, sweet orange-oil		68647-72-3	100		
4. First-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.				
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.				
Ingestion	Do not induce vomiting. Obtain medical attention.				
Most important symptoms/effects	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting				
Notes to Physician	Treat symptomatically				
	5. Fii	re-fighting measures			
Suitable Extinguishing Media	CO 2, dry che with water sp		Cool closed containers exposed to fire		
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 Sensitivity to Static Discharge	t No information available 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 2	Flammability 2	<b>Instability</b> 0	Physical hazards N/A		
	6. Accidental rel	ease measures			
Personal Precautions Environmental 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. Should not be released into the environment. See Section 12 for additional ecological information.				
Methods for Containment and Clea Up		on. Soak up with inert absorb charges. Keep in suitable, clos			
	7. Handling a	and storage			
Handling	sources of ignition. Take pre	quipment. Keep away from op ecautionary measures against t get in eyes, on skin, or on clo	static discharges. Do not breathe		
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from h and sources of ignition. Flammables area.				
8. E	xposure controls /	personal protection	on		
Exposure Guidelines	This product does not conta established by the region sp		ith occupational exposure limits		
Engineering Measures			. Use explosion-proof ash stations and safety showers		
Personal Protective Equipment					
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.				
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.				
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 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	Handle in accordance with g	good industrial hygiene and sa	afety practice.		
(	9. Physical and che	emical properties			

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
<b>Boiling Point/Range</b>
Flash Point
Evaporation Rate
Flammability (solid,gas)

Liquid

Clear Colorless Characteristic, sweet No information available No information available 176 °C / 348.8 °F 44.4 °C / 111.9 °F No information available No information available

Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Relative Density
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity

6.1 vol % 0.7 vol % < 3 mmHg @ 14.4 °C 4.7 No information available Insoluble in water No data available No information available No information available No information available

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available				
Stability	Stable under normal conditions.				
Conditions to Avoid	Incompatible products. Heat, flames and sparks.				
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 Oral LD50	No acute toxicity information is available for this product Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.				

Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Vapor LC50	Based 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 v	vell 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 Terpenoids, sweet orange-oil	68647-72-3	Not listed	Not listed Not listed		Not listed	Not listed	
Mutagenic Effects		No information available					
Reproductive Effect	ts	No information available.					
Developmental Effe	cts	No information available.					
Teratogenicity		No information available.					
STOT - single expos STOT - repeated ex		None known 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	o information available			
Other Adverse Effects	The toxicological properties have not been fully investigated.			
	12. Ecological information			
Ecotoxicity Very toxic to aquatic organisms, may o	cause long-term adverse effects in the aquatic environment.			
Persistence and Degradability Bioaccumulation/ Accumulation	No information available 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 Proper Shipping Name Hazard Class Packing Group TDG	UN2319 TERPENE HYDROCARBONS, N.O.S. 3 III			
UN-No Proper Shipping Name Hazard Class Packing Group IATA	UN2319 TERPENE HYDROCARBONS, N.O.S. 3 III			
UN-No Proper Shipping Name Hazard Class Packing Group	UN2319 TERPENE HYDROCARBONS, N.O.S. 3 III			

Packing Group	III
IMDG/IMO	
UN-No	UN2319
Proper Shipping Name	TERPENE HYDROCARBONS, N.O.S.
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 orange-oil	X	Х	-	-	-		Х	-	Х	Х	Х
Legend:											

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.

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 313	Not applicable				
SARA 311/312 Hazardous Categori Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	Yes Yes				
Clean Water Act	Not applicable				
Clean Air Act	Not applicable				
<b>OSHA</b> Occupational Safety and Heal Not applicable	th Administration				
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): DOT Marine Pollutant DOT Severe Marine Pollutant	N N 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 ir the MSDS contains all the informat	n accordance with the hazard criteria of the Controlled Products Regulations (CPR) and tion required by the CPR				
WHMIS Hazard Class	D2B Toxic materials B2 Flammable liquid				



16. Other information

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### 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**