

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Hazard Statement(s):

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Disposal]

Hazards not otherwise classified: [HNOC] (-)-Camphor C1251

For laboratory research purposes. Not for drug or household use.

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Flammable Solids [Category 2]

Aquatic Hazard (Acute) [Category 3]

Warning!

Flammable solid Harmful if swallowed Causes skin irritation Causes serious eye irritation Harmful to aquatic life



Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated

clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

None.

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2 COMPOSITION/INFORMATION ON INCREDIENTS

3. COMPOSITION/INFORMATION O	N INGREDIENTS		
Substance/mixture:	Substance		
Components:	(-)-Camphor		
Percent:	>98.0%(GC)		
CAS RN:	464-48-2		
Molecular Weight:	152.24		
Chemical Formula:	C10H16O		
Synonyms:	1,7,7-Trimethylbicyclo[2.2.1]-2-heptanone		
4. FIRST-AID MEASURES			
Description of first aid measures			
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical		
	advice/attention if you feel unwell.		
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If		
	skin irritation or rash occurs: Get medical advice/attention.		
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.		
	Continue rinsing. If eye irritation persists: Get medical advice/attention.		
Ingestion:	Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.		
Symptoms/effects:			
Acute:	Redness.		
Delayed:	No data available		
Not available. Notes to physician: No data available			
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.		
Hazardous combustion products:	These products include: Carbon oxides		
Other specific hazards:	Closed containers may explode from heat of a fire.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
and cleaning up: Prevention of secondary hazards:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains. Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.		
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.		
Conditions for safe storage, including a			
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.		
	Store away from incompatible materials such as oxidizing agents.		
Packaging material:	Comply with laws.		

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Almost white No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	177°C (351°F) No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. 5.24 No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	466°C (871°F) 0.6% 3.5%
Solubility(ies): [Water] [Other solvents] Very soluble: Soluble:	Very slightly soluble (1.6g/L, 25°C) Ether, Alcohols, Carbon disulfide, Petroleum benzine Phenol		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. Dust explosion possible if in powder or granular form, mixed with air. Spark, Open flame, Static discharge Oxidizing agents, Reducing agents, Chlorinated solvents Carbon dioxide, Carbon monoxide **TCI AMERICA**

11. TOXICOLOGICAL INFORMATION

RTECS Number: EX1250000

Acute Toxicity: ivn-mus LD50:320 mg/kg	orl-rat LDLo:800 ug/kg			
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity:				
Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available			
Log Pow:	No data available			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not			
Disposal of container: Other considerations:	Dispose of as unus	r the environment, drains, water ways sed product. Do not re-use empty cor Il, state and local regulations when dis	tainers.	

14. TRANSPORT INFORMATION

DOT (US) UN number: UN2717	Proper Shipping Name: Camphor	Class or Division: 4.1 Flammable solid	Packing Group: III	
IATA UN number: UN2717	Proper Shipping Name: Camphor	Class or Division: 4.1 Flammable solid	Packing Group: III	
IMDG UN UN2717 numb er:	Proper Shipping Name: Camphor	Class or Division: 4.1 Flammable solid	Packing Group: III	
EmS number:	F-A, S-I			

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regul	lations		
CERCLA Hazardo	ous substance and Re	portable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulations			
State Right-to-Kn			
Massachuset		Not Listed	
	115		
New Jersey		Not Listed	
Pennsylvania	1	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	<u>1</u>		
NFPA Rating:			HMIS Classification:
Health:	2		Health:
Flammability:	2		Flammability:
Instability:	2		Physical:
International Inve	entories	0.000	
Canada: NDSL		On NDSL	
EC-No:		207-354-7	

16. OTHER INFORMATION

Revision date: 07/06/2018

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

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