

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]

Flammable solid Harmful if swallowed Causes skin irritation Causes serious eye irritation

Warning!

None.

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2]

Eye Damage/Irritation [Category 2A] Flammable Solids [Category 2]

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. 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.).

Hazards not otherwise classified: [HNOC]

(+)-Camphor

Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

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

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For laboratory research purposes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	(+)-Camphor
Percent:	>98.0%(GC)
CAS RN:	464-49-3
Molecular Weight:	152.24
Chemical Formula:	C10H16O

4. FIRST-AID MEASURES

Description of first aid measures Inhalation: Skin contact: Eye contact: Ingestion: Symptoms/effects: Acute:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. 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. 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. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.		
Delayed:	No data available		
Indication of any immediate medical attention Not available. Notes to physician: No data available	ention:		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.		
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Closed containers may explode from heat of a fire.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment 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: Conditions for safe storage, including a	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.		
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.		
Packaging material:	Store away from incompatible materials such as oxidizing agents. Comply with laws.		
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: Hand protection: Eye protection: Skin and body protection:	Dust respirator. Follow local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires. 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 - Colorless Characteristic No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	178°C (352°F) 204°C (399°F) No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 5.24 No data available 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 Ether, Alcohols, Chlo Many organic solvent	(1.6g/L, 25°C) roform, Carbon disulfide	0.078
10. STABILITY AND REACTI	VITY		
Reactivity: Chemical stability: Possibility of hazardous reactio Conditions to avoid: Incompatible materials: Hazardous decomposition prod	Spark, Open flame, S Oxidizing agents, Red Carbon dioxide, Carb	ble if in powder or granular form, mixed with Static discharge ducing agents, Chlorinated solvents	air.
RTECS Number: EX1260000			
Acute Toxicity: ipr-rat LDLo:3500 mg/kg			
scu-mus LDLo:2200 mg/kg		orl-mus LD50:1310 mg/kg scu-rat LDLo:1700 mg/kg	
scu-mus LDLo:2200 mg/kg Skin corrosion/irritation:			
scu-mus LDLo:2200 mg/kg Skin corrosion/irritation: skn-rbt 500 mg/24H MOD Serious eye damage/irritation:	1:		
scu-mus LDLo:2200 mg/kg Skin corrosion/irritation: skn-rbt 500 mg/24H MOD Serious eye damage/irritation: No data available Respiratory or skin sensitization	n:		
scu-mus LDLo:2200 mg/kg Skin corrosion/irritation: skn-rbt 500 mg/24H MOD Serious eye damage/irritation: No data available Respiratory or skin sensitization No data available Germ cell mutagenicity:	1:		
scu-mus LDLo:2200 mg/kg Skin corrosion/irritation: skn-rbt 500 mg/24H MOD Serious eye damage/irritation: No data available Respiratory or skin sensitization No data available Germ cell mutagenicity: No data available Carcinogenicity:			: No data available

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Ecotoxicity: Fish: Crustacea: Algae:		No data available No data available No data available		
Persistence / degra Bioaccumulative p Mobility in soil		No data available 38		
Log Pow: Soil adsorpt	ion (Koc): (PaM ³/mol):	2.38 8.2 470		
13. DISPOSAL C	ONSIDERATIONS			
Disposal of product: Recycle to process if possible. It is the gener Local rules and regulations. You may be able and burn in a chemical incinerator equipped intended to provide assistance but does not with this section ensure regulatory compliand		lations. You may be able to o cal incinerator equipped with assistance but does not repla ure regulatory compliance ac sting of Hazardous Waste are	e listed in 40 CFR Parts 261. The product should not	
Disposal of contain		Dispose of as unuse	d product. Do not re-use em	pty containers.
Other consideratio	ns:	Observe all federal,	state and local regulations w	hen disposing of the substance.
14. TRANSPORT	INFORMATION			
DOT (US) UN number: UN2717	Proper Shipping N Camphor	ame:	Class or Division: 4.1 Flammable solid	Packing Group:
IATA UN number: UN2717	Proper Shipping Na Camphor	ame:	Class or Division: 4.1 Flammable solid	Packing Group:

IMDG

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Proper Shipping Name: Camphor

Class or Division: 4.1 Flammable solid

Packing Group:

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EmS number:

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

F-A, S-I

US Federal Regulations

US rederar Kegu	lations		
CERCLA Hazardo	ous substance and Re	eportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulation	s		
State Right-to-Kn			
Massachuse		Not Listed	
New Jersey		Not Listed	
Pennsylvania	3	Not Listed	
California Propos		Not Listed	
Other Information	<u>1</u>		
NFPA Rating:			HMIS Classification:
Health:	2		Health:
Flammability:	2		Flammability:
Instability:	2		Physical:
International Inve	ntorios		
-	mones		
Canada: DSL		On DSL	
EC-No:		207-355-2	

16. OTHER INFORMATION

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

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.