

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:

Danger!

None.

Hazard Statement(s):

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Absorb spillage to prevent material damage. Store in corrosive resistant bottle or metal container with a resistant inner liner. Store locked up. 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.).

Keep only in original container. Do not breathe dusts or mists. Wash hands and face thoroughly after

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on

handling. Wear protective gloves, protective clothing, face protection.

Hazards not otherwise classified: [HNOC] (-)-10-Camphorsulfonic Acid C0972

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

Eye Damage/Irritation [Category 1]

Causes severe skin burns and eye damage

Corrosive to Metals [Category 1] Skin Corrosion/Irritation [Category 1C]

May be corrosive to metals

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

TCI AMERICA SAFETY DATA SHEET

TCI AMERICA

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	(-)-10-Camphorsulfonic Acid
Percent:	>98.0%(T)
CAS RN:	35963-20-3
Molecular Weight:	232.29
Chemical Formula:	C10H16O4S
Synonyms:	(-)-CSA
Chemical Formula:	C10H16O4S
Synonyms:	(-)-CSA

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. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Symptoms/effects:	
Acute:	Pain. Redness.
Delayed:	No data available
Indication of any immediate medica	l attention:
Not available.	
Notes to physician:	
No data available	

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Sulfur oxides Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

a. Entry to etc. ered or collected egulations.
t. Prevent ated.

TCI AMERICA

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, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious 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 - Very pale yellow No data available No data available No data available		
Melting point/freezing point:	195°C (dec.) (383°F)	pH:	No data available
Boiling point/range:	No data available	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	No data available	Dynamic Viscosity:	No data available
Kinematic viscosity:	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:	No data available
		Lower:	No data available
		Upper:	No data available
Solubility(ies): [Water] [Other solvents]	Soluble No data available		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents, Bases Carbon dioxide, Carbon monoxide, Sulfur oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available				
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			
	No data available			
Persistence / degradability: Bioaccumulative potential(BCF):				
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow:	No data available No data available No data available No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc):	No data available No data available No data available No data available No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³/mol):	No data available No data available No data available No data available No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc):	No data available No data available No data available No data available No data available No data available No data available Recycle to process Local rules and re and burn in a cher intended to provide with this section er Identification and I	s if possible. It is the generator's r gulations. You may be able to diss nical incinerator equipped with an e assistance but does not replace nsure regulatory compliance acco Listing of Hazardous Waste are lis r the environment, drains, water w	solve or mix ma afterburner and these laws, nor rding to the law sted in 40 CFR F	terial with a combustible solvent I scrubber system. This section is does compliance in accordance . US EPA guidelines for Parts 261. The product should not

Page 4 of 5

14. TRANSPORT INFORMATION

DOT (US) UN number: UN3261	Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s	Class or Division: 8 Corrosive material	Packing Group:
IATA UN number: UN3261	Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s	Class or Division: 8 Corrosive material	Packing Group:
IMDG UN UN3261 numb er:	Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s	Class or Division: 8 Corrosive material	Packing Group: III
EmS number:	F-A, S-B		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazard	ous substance a	nd Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulation	<u>s</u>			
State Right-to-Kr	now			
Massachuse	tts	Not Listed		
New Jersey		Not Listed		
Pennsylvania	a	Not Listed		
California Propos	sition 65:	Not Listed		
Other Informatio	n			
NFPA Rating:	_		HMIS Classification:	
Health:	3		Health:	3
Flammability:	0		Flammability:	0
Instability:	0		Physical:	0
International Inve	entories			
EC-No:		252-817-9		
16. OTHER INF	ORMATION			

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.