

Revision number: 2 Revision date: 10/06/2014

1. IDENTIFICATION

Product name: Product code: (-)-10-Camphorsulfonyl Chloride C1308

TCI AMERICA

SAFETY DATA SHEET

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

Signal word:

Danger!

Hazard Statement(s):

Causes serious eye damage Causes severe skin burns and eye damage May be corrosive to metals

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection. Wear eye protection. Wear face protection (full length face shield). Keep only in original container. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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. Absorb spillage to prevent material damage. Store locked up. Store in corrosive resistant container with use for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Hazards not otherwise classified: [HNOC] May develop pressure

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

TCI AMERICA

re mphorsulfonyl Chloride T) 2-1 DosS tely call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed. tim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical el are aware of the material(s) involved and take precautions to protect themselves. re burns, immediate medical attention is required. Immediately call a poison center or doctor. and wash contaminated clothing before re-use. In case of contact with substance, immediately o with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that bersonnel are aware of the material(s) involved and take precautions to protect themselves. NTELY flush eyes with running water for at least 15 minutes, keeping eyelds open. Eye contact ors or substance may cause severe injury, burns, or death. Call emergency medical service. Move fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat atically and supportively. Effects of exposure to substance may be delayed. Ensure that medical at are aware of the material(s) involved and take precautions to protect themselves. duce vomiting with out medical advice. Call a physician or Poison Control Center immediately. Do nouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a ask equipped with a one-way valve or other proper respiratory medical device. Loosen tight such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so it will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat atically and supportively. Ensure that medical personnel are aware of the material(s) involved and take autions to protect themselves.
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dness. available
G: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because ad material is corrosive. For severe burns, immediate medical attention is required. If breathing bed, perform artificial respiration. Use first aid treatment according to the nature of the injury. hat medical personnel are aware of the material(s) involved and take precautions to protect es.
nical, CO_2 or water spray. Consult with local fire authorities before attempting large scale fire perations.
oducts include: Carbon oxides Halogenated compounds Silicates G: Highly toxic HCI gas is produced during combustion.
ke fire-control water for later disposal; do not scatter the material. Containers may explode when without risk.
atus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situation hemical protective clothing which is specifically recommended by the manufacturer. It may

 Personal precautions:
 Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

 Personal protective equipment:
 Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).

Emergency procedures:

6. ACCIDENTAL RELEASE MEASURES

Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Ventilate the area. **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Avoid inhalation of vapor or mist. Manipulate under an adequate fume hood. Avoid contact with skin and eyes. May corrode metallic surfaces. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Store in corrosive resistant container with a resistant inner liner. Keep containers tightly closed in a cool, well-ventilated place. Store locked up. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Moisture sensitive. Store in refrigerator.
Storage incompatibilities:	Bases, Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

Porconal protoctive equipment

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Fersonal protective equipment	
Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Nitrile gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Wear protective clothing (lab coat and chemical resistant boots).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Almost white No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	67°C (153°F) No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log P _{ow})	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: No data av	
		Upper: No data av	vailable

Solubility(ies):

Soluble: Toluene

10. STABILITY AND REACTIVITY

Reactivity:

Corrodes in contact with metals.

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Heat sensitive. Moisture sensitive. No hazardous reactivity has been reported.

No data available

Exposure to moisture. Heat sensitive. Moisture sensitive.

Moisture, Strong bases, Strong oxidizing agents

10. STABILITY AND REACTIVITY

Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available		
No data avallable		
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		
Routes of Exposure:	Inhalation, Eye contact, Ingestion, Skin contact.	
Symptoms related to exposure:		
contact can result in corneal damage or	ontact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering. E blindness.	ye
contact can result in corneal damage or Potential Health Effects:	blindness.	ye
contact can result in corneal damage or Potential Health Effects:		ye
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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 be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.

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13. DISPOSAL CONSIDERATIONS

Other considerations:

Observe all federal, state and local regulations when disposing of the substance.

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: III
IATA UN number: UN3261	Proper Shipping Name: Corrosive solid, acidic, organic, n.o.s.	Class or Division: 8 Corrosive material	Packing Group: III
IMDG UN number: UN3261	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 Hazardous substance and Reportable Quantity:		
SARA 313:	Not Listed	
SARA 302:	Not Listed	

State Regulations

State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

Other Information

NFPA Rating:

Health:	3
Flammability:	0
Instability:	0

International Inventories

WHMIS hazard class:

E: Corrosive material.

16. OTHER INFORMATION

Revision date: 10/06/2014 Revision number: 2

HMIS Classification:

Health:	3
Flammability:	0
Physical:	0

16. OTHER INFORMATION

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 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.