

### Revision number: 5 Revision date: 10/17/2016

### **IDENTIFICATION** 1.

Product name: Product code:

Thiophene-2-acetyl Chloride T1751

### Product use: **Restrictions on use:**

# Company

Signal word:

Danger!

Hazard Statement(s):

Causes serious eye damage Causes severe skin burns and eye damage Combustible liquid 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 away from heat, sparks, open flames or other hot surfaces. - No smoking. Wear protective gloves, eye protection and face protection. 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. In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish. Absorb spillage to prevent material damage. Store locked up. Store in well-ventilated place. Keep cool. Store in corrosive resistant container with a resistant inner liner.

Dispose of contents and container in accordance with US EPA guidelines 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

For laboratory research purposes.

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SAFETY DATA SHEET

Not for drug or household 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	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	
Z. HAZARD(S) IDENTIFICATION		
OSHA Haz Com: CFR 1910.1200:	Eye Damage/Irritation [Category 1] Flammable Liquids [Category 4] Corrosive to Metals [Category 1] Skin Corrosion/Irritation [Category 1C]	

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	Substance
Components:	Thiophene-2-acetyl Chloride
Percent:	>98.0%(GC)(T)
CAS Number:	39098-97-0
Molecular Weight:	160.62
Chemical Formula:	CeHeCIOS
Synonyms:	2-Thienylacetyl Chloride
4. FIRST-AID MEASURES	
Inhalation:	Immediately call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical
Skin contact:	personnel are aware of the material(s) involved and take precautions to protect themselves. For severe burns, immediate medical attention is required. Immediately call a poison center or doctor. Remove and wash contaminated clothing before re-use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that
Eye contact:	medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Eye contact with vapors or substance may cause severe injury, burns, or death. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	Pain. Redness. No data available
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is corrosive. For severe burns, immediate medical attention is required. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, $CO_2$ or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the chem Hazardous combustion products: Other specific hazards:	ical These products include: Carbon oxides Sulfur oxides Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion.
have a very low flash point: Use of water s	nt streams. Dike fire-control water for later disposal; do not scatter the material. CAUTION: All these products spray when fighting fire may be inefficient. Do not use straight streams. Runoff to sewer may create fire or e when heated. Move containers from fire area if you can do it without risk. ahters:
Wear positive pressure self-contained bre	athing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations tions. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may

6. ACCIDENTAL RELEASE MEASURES

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Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Use spark-
	proof tools and explosion-proof equipment. Remove all sources of ignition. 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. Vapor
	respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves
	(nitrile).
Emergency procedures:	İsolate area until gas has dispersed. 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). All equipment used when handling the product must be grounded. Stop leak if without risk. Ventilate the area. 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.

# **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:	Do NOT breath gas, fumes, vapor, or spray. Manipulate under an adequate fume hood. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. 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: Storage incompatibilities:	Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. 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. Bases, Combustible substances, Store away from oxidizing agents

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

### Appropriate engineering controls:

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.

# Personal protective equipment Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Hand protection: Wear protective gloves. Eye protection: Splash goggles. Skin and body protection: Lab coat.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Liquid
Form:	Clear
Color:	Yellow - Brown
Odor:	No data available
Odor threshold:	No data available

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9. PHYSICAL AND CHEMICAL	PROPERTIES		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available 106°C (223°F)/2.9kPa No data available 1.31 No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available 0.53kPa/83°C No data available No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	85°C (185°F) No data available	Autoignition temperature: Flammability or explosive li Lower: No dat	No data available i <b>mits:</b> ta available
		Upper: No dat	ta available
Solubility(ies):			
10. STABILITY AND REACTIV	ΊΤΥ		
Reactivity: Chemical Stability: Possibility of Hazardous Reaction Conditions to avoid: Incompatible materials: Hazardous Decomposition Produ	Exposure to light. Exp Strong bases, Strong	ght sensitive. Imable/explosive vapor-air mixture. Dosure to moisture. Moisture sensitive.	
11. TOXICOLOGICAL INFORM	NATION		
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: N	lo data available	OSHA: No data available
Reproductive toxicity: No data available			
contact can result in corneal damag Potential Health Effects:	kin contact may result in inflamme or blindness.	ct, Ingestion, Skin contact. nation; characterized by itching, scalin n irriatation. May be harmful if inhaled	g, reddening, or occasionally blistering. Eye or ingested.
12. ECOLOGICAL INFORMAT	ION		
Ecotoxicity			

No data available No data available No data available Fish: Crustacea: Algae:

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# 12. ECOLOGICAL INFORMATION

Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil:	No data available No data available No data available
Partition coefficient:	No data available
n-octanol/water (log P <sub>ow</sub> ) Soil adsorption (Koc):	No data available
Henry's Law: constant (PaM <sup>3</sup> /mol)	No data available

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.
Dispose of as unused product. Do not re-use empty containers.
Observe all federal, state and local regulations when disposing of the substance.

HMIS Classification:

# 14. TRANSPORT INFORMATION

DOT (US) UN number: UN3265	<b>Proper Shipping Name:</b> Corrosive liquid, acidic, organic, n.o.s.	Class or Division: 8 Corrosive material	Packing Group:
IATA UN number: UN3265	<b>Proper Shipping Name:</b> Corrosive liquid, acidic, organic, n.o.s.	<b>Class or Division:</b> 8 Corrosive material	Packing Group: III
IMDG UN number: UN3265	<b>Proper Shipping Name:</b> Corrosive liquid, acidic, organic, n.o.s.	Class or Division: 8 Corrosive material	Packing Group: III

# F-A, S-B

# 15. REGULATORY INFORMATION

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

# **US Federal Regulations**

EmS number:

<b>CERCLA Hazardous substance and Reportable Quantity:</b>			
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	Health:	3
Flammability:	2	Flammability:	2
Instability:	1	Physical:	1

# International Inventories

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15. REGULATORY INFORMATION		
WHMIS hazard class:	E: Corrosive material.	
	B3: Combustible Liquid.	
EC-No:	254-290-0	

# 16. OTHER INFORMATION

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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.