

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:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

2,3-Thiophenedicarboxaldehyde

For laboratory research purposes.

Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Warning!

None.

T2388

Hazard Statement(s):

Causes skin irritation Causes serious eye irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. 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.

Hazards not otherwise classified: [HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:
Components:
Percent:
CAS RN:
Molecular Weight:
Chemical Formula:

Substance 2,3-Thiophenedicarboxaldehyde >98.0%(GC) 932-41-2 140.16 C₆H₄O₂S 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

chemical: Hazardous combustion products: These products include: Carbon oxides Sulfur oxides Mazardous combustion products: These products include: Carbon oxides Sulfur 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 MEASURES Use personal precautions, protective equipment and emergency procedures: Personal precautions, protective equipment and emergency procedures: 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. 7. HANDLING AND STORAGE Prevent dispersion of dust. 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 any incompatibilities Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Store away from incompatibile materials such as oxidizing agents. Air-sensitive Packaging material: Comply with laws. 8. EXPOSURE CONTROLS / PERSONAL PROTECTION Follow safe industrial engineering/laboratory practices when handl	4. FIRST-AID MEASURES			
Inhalation: Remove vicinin to fresh air and keep at rest in a position comfortable for bireathing. Get medical advice/attention of your feed unwell. Skin contact: Remove/Take off immediately all contaminated clothing. Gentry wash with pleny of scap and water, akin irritation or risms cours. Get medical advice/attention. Eye contact: Remove/Take off immediately all contaminated clothing. Gentry wash with pleny of scap and water, akin irritation presists. Get medical advice/attention. Symptome/offects: Active: Active: Refiness. Delayed: No data available Notats available No data available Notats available Stress to physician: Notats available Take care as it may decompose upon combusition or in high temperatures to generate poisonous fur chemical: Specific hazards arising from the chemical: Take care as it may decompose upon combusition or in high temperatures to generate poisonous fur chemical: Advice for firefighters: Wear self-contained breathing apparatus if possible. 6. ACCIDENTAL RELEASE MEASURES Use possible roothines may explore from heat of a fire. Wear self-contained breathing apparatus if possible. See projective upoing off, etc. Ferevent productive equipment. Keep people away from and upwind of spiil/leak. Entry to promoting threathing areastres in contand threathing, apparatus and regulations.	Description of first aid moasures			
Skin contact: RemoveTake off immediately all contaminated clothing. Genty wash with plenty of soap and water. skin infration or rans occurs: Get medical advice/attention. Eye contact: Rinse cautiously with water for several minutes. Remove contact lones, if present and easy to do. Continue rinsing. If eye infration persists: Get medical advice/attention. Symptoms/effects: Redness. Acute: Redness. Delayed: No data available Indication of any immediate medical attention: Not available No data available Statiable 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 fur chemical: Advice for firefighters: Wear self-contained breathing apparatus if possible. 6. ACCIDENTAL RELEASE MEASURES Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to equipment and emergency procedures: Environmental precations: Prevent product from entering drains. Wate do file filegitters: Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to equipment and emergency procedures: Environmental precations: Prevent product from entering drains. Wate a local advice/attention an arright container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. 7. HANDLING AND STORAG	-			
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Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth. Symptoms/effects: Acute: Redness. Acute: Redness. No data available Indication of any Immediate medical attention: Not available Nota available No data available Strates Specific hazards arising from the chemical. Dry chemical. 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 fur chemical: Advice for firefighters: Wear self-contained breathing apparatus if possible. 6. ACCIDENTAL RELEASE MEASURES Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to goupment and emergency procedures: Personal precautions, protective guipment and emergency procedures: Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to moni-molved personnel should be controlled around the leakage area by roping off, etc. Firivinomental precautions, protective equipment and emergency procedures: Sweep dust to collect it into an aintight container, taking care not to disperse it. Adhreed or collected and cleaning up: 7. HANDLING AND STORAGE Sweep dust to collect it was and frace throught differs Precautions for safe handling:	Eye contact:			
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	Appropriate engineering controls:	system or local exhaust as possible so that workers should not be exposed directly. Also install safety		
		Dust respirator. Follow local and national regulations		

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 Very pale yellow - Pale No data available No data available No data available	yellow green	
Melting point/freezing point:	79°C (174°F)	pH:	No data available
Boiling point/range:	134°C /2.9kPa (273°F)	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]	No data available		
[Other solvents]			
Soluble:	Methanol		
10. STABILITY AND REACT	ΙVΗΥ		

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 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

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

No data available

OSHA:

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Crustacea: Algae:	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
Soil adsorption (Koc): Henry's Law (PaM ³/mol):	No data available 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 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. Observe all federal, state and local regulations when disposing of the substance. Other considerations:

14. TRANSPORT INFORMATION

DOT (US)	Non-hazardous for transportation.
IATA	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

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	and 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	а	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	<u>n</u>		
NFPA Rating:			HMIS Classi
Health:	0		Health:
Flammability:	0		Flammabi
Instability:	0		Physical:

International Inventories

ification:

alth:	0
mmability:	0
ysical:	0

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.