

Revision number: 1 Revision date: 10/06/2014

1. IDENTIFICATION

Product name: Product code: Ethyl 2-Amino-4,5-dimethylthiophene-3-carboxylate E1005

For laboratory research purposes.

Not for drug or household use.

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:

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

Signal word:

Warning!

None

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation

Pictogram(s) or Symbol(s):



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

> [Storage] [Disposal]

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/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. None

Supplementary Information:

While this material is not classified as hazardous under OSHA, this SDS contains valuable information critical to safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Substance Ethyl 2-Amino-4,5-dimethylthiophene-3-carboxylate >98.0%(GC)(T) 4815-24-1 199.27

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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3. COMPOSITION/INFORMATION	ON INGREDIENTS	
Chemical Formula:	$C_9H_{13}NO_2S$	
Synonyms:	2-Amino-4,5-dimethylthiophene-3-carboxylic Acid Ethyl Ester	
4. FIRST-AID MEASURES		
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to is not breathing. Administer oxygen if breathing is difficult. Kee symptomatically and supportively. Ensure that medical person take precautions to protect themselves.	ep victim warm and quiet. Treat
Skin contact:	If skin irritation occurs get medical advice/attention. Remove a use. In case of contact with substance, immediately flush skin Treat symptomatically and supportively. Ensure that medical p involved and take precautions to protect themselves.	with running water for at least 20 minutes.
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 m material may irritate or burn eyes. Call emergency medical ser remove any contact lenses. Keep victim warm and quiet. Trea exposure to substance may be delayed. Ensure that medical p involved and take precautions to protect themselves.	rvice. Move victim to fresh air. Check for and t symptomatically and supportively. Effects of personnel are aware of the material(s)
Ingestion:	Do not induce vomiting with out medical advice. If swallowed, the container or label. Do not use mouth-to-mouth method if vi respiration with the aid of a pocket mask equipped with a one- medical device. Loosen tight clothing such as a collar, tie, belt in the recovery position so that vomit will not reenter the mouth and quiet. Treat symptomatically and supportively. Ensure that material(s) involved and take precautions to protect themselve	ictim ingested the substance; give artificial way valve or other proper respiratory t or waistband. If a person vomits place them h and throat. Rinse mouth. Keep victim warm t medical personnel are aware of the
Symptoms/effects:		
Acute: Delayed:	Redness. No data available	
Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first injury. Ensure that medical personnel are aware of the materia themselves.	
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media:	Dry chemical, CO_2 , sand, earth, water spray or regular foam C attempting large scale fire fighting operations.	Consult with local fire authorities before
Specific hazards arising from the cher Hazardous combustion products: Other specific hazards:	mical These products include: Carbon oxides Nitrogen oxides Sulfur Closed containers may explode from heat of a fire.	roxides
Special precautions for fire-fighters: Use water spray or fog; do not use straig heated. Move containers from fire area it Special protective equipment for fire-f		the material. Containers may explode when
Wear positive pressure self-contained br	eathing apparatus (SCBA). Structural fire fighters' protective clothin ations. Wear chemical protective clothing which is specifically recon	

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:	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. 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.

6. ACCIDENTAL RELEASE MEASURES

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.

Precautions for safe handling:	Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. 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:	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Store away from oxidizing agents

8	. EXP	POSURE	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	
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:	Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder Very pale yellow - Pale yellow No data available No data available	1	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	93°C (199°F) No data available 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 temper Flammability or exp Lower: Upper:	

Solubility(ies): Soluble: Methanol

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

carboxylate					
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					
Routes of Exposure: Symptoms related to exposure: Skin contact may result in inflammation; cha or dry skin. Eye contact may result in rednes Potential Health Effects: Skin and eye contact may result in irritation.	racterized by itching s or pain.	ntact, Ingestion, Skin contact. , scaling, reddening, or occas	ionally blistering. Skir	n contact may result in redness, pai	n
Target organ(s):	No data available				
12. ECOLOGICAL INFORMATION					
Ecotoxicity					
Fish:	No data available				
Crustacea: Algae:	No data available No data available				
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol)	No data available No data available No data available No data available No data available No data available				
13. DISPOSAL CONSIDERATIONS					
Disposal of product: Disposal of container:	rules and regulatio chemical incinerato assistance but doe regulatory complia Waste are listed in water ways, or the	ons. You may be able to dissol or equipped with an afterburn as not replace these laws, nor nce according to the law. US 40 CFR Parts 261. The prod	lve or mix material wit er and scrubber syste does compliance in a EPA guidelines for Id uct should not be allo	omply with Federal, State and Local th a combustible solvent and burn in m. This section is intended to provi accordance with this section ensure entification and Listing of Hazardou wed to enter the environment, drain	n a de Is
Other considerations:		I, state and local regulations v		substance.	
14. TRANSPORT INFORMATION					
DOT (US)	Non-hazardous for	r transportation.			
ΙΑΤΑ	Non-hazardous for	r transportation.			
IMDG	Non-hazardous for	r transportation.			

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carboxylate

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:

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(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:		HMIS Classification:		
Health:	1	Health:	1	
Flammability:	0	Flammability:	0	
Instability:	0	Physical:	0	
International Inver WHMIS hazard cla EC-No:		D2B: Materials causing other toxic effects. (Tox 225-387-5	(ic)	

16. OTHER INFORMATION

Revision date: 10/06/2014

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.