

Revision number: 3 Revision date: 10/06/2014

# 1. IDENTIFICATION

Product name: Product code: 2,4-Dimethyloxazole D3766

Product use: Restrictions on use:

### Company:

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## 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Signal word:

Flammable Liquids [Category 3]

Hazard Statement(s):

Flammable liquid and vapor

Warning!

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Keep away from heat, sparks, open flames or other hot surfaces. - No smoking. Keep container tightly closed. Ground or bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection and face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.
Store in a well-ventilated place. Keep cool.
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)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	S
Components:	2,
Percent:	>9
CAS Number:	72
Molecular Weight:	97
Chemical Formula:	С

Substance 2,4-Dimethyloxazole >98.0%(GC) 7208-05-1 97.12 C₅H7NO

For laboratory research purposes.

Not for drug or household use.

**TCI AMERICA** 

SAFETY DATA SHEET

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

Personal protective equipment:

Methods and materials for containment and cleaning up:

container. Use clean non-sparking tools to collect absorbed material.

**Emergency procedures:** 

**Environmental precautions:** 

# 4. FIRST-AID MEASURES

Inhalation:	Call a poison center or doctor if you feel unwell. 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 personnel are aware of the material(s) involved and	
	take precautions to protect themselves.	
Skin contact:         Call a poison center or doctor if you feel unwell. Remove and isolate contaminated clothing and sh case of contact with substance, immediately flush skin with running water for at least 20 minutes. T symptomatically and supportively. Ensure that medical personnel are aware of the material(s) invo take precautions to protect themselves.		
Eye contact:	If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper eyelids. If eye irritation persists get medical advice/attention. 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	
Ingestion:	personnel are aware of the material(s) involved and take precautions to protect themselves. 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:	No data available	
Delayed:	No data available	
Immediate medical attention:	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, $CO_2$ , water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.	
Specific hazards arising from the chem	lical	
Hazardous combustion products:	These products include: Carbon oxides Nitrogen oxides	
Other specific hazards:	Closed containers may explode from heat of a fire.	
Special precautions for fire-fighters:	low flash point: Use of water spray when fighting fire may be inefficient. Use water spray or fog; do not use	
	ams. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Move vithout risk.	
	athing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations	
6. ACCIDENTAL RELEASE MEASU	IRES	
Personal precautions:	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	

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.

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

equivalent. Wear protective gloves (nitrile).

basements or confined areas; dike if needed.

unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.

Isolate area until gas has dispersed. In case of a spill and/or a leak, always shut off any sources of ignition,

Splash goggles. Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or

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,

Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

## 7. HANDLING AND STORAGE

Precautions for safe handling:	Do NOT breath gas, fumes, vapor, or spray. 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. 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 containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. 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).
Storage incompatibilities:	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

Respiratory protection: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): Form: Color: Odor: Odor threshold:	Liquid Clear Colorless - Pale yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available 108°C (226°F) No data available 0.98 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 <sub>ow</sub> )	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 ava Upper: No data ava	ailable

### Solubility(ies):

### 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) In use, may form flammable/explosive vapor-air mixture. Avoid excessive heat and light. Oxidizing agents No data available

# 11. TOXICOLOGICAL INFORMATION

2,4-Dimethyloxazole	TCI AN	IERICA		Page 4 of	5
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	
<b>Reproductive toxicity:</b> No data available					
Routes of Exposure: Symptoms related to exposure: No specific information is available in our of be kept to a minimum. Always follow safe		ne toxic effects of this materia			

Potential Health Effects: No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested. No data available

Target organ(s):

# 12. ECOLOGICAL INFORMATION

Ecotoxicity Fish: Crustacea: Algae:	No data available 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 <sup>3</sup> /mol)	No data available No data available No data available No data available No data available No data available

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

# 14. TRANSPORT INFORMATION

DOT (US)	
UN number:	Proper
UN1993	Flamma

IATA

Shipping Name: able liquids, n.o.s.

**Class or Division:** 3 Flammable liquid Packing Group: III

14. TRANSPOR	RT INFORMATION			
UN number:	Proper Shipping Na	me:	Class or Division:	Packing Group:
UN1993	Flammable liquid, n.c	o.S.	3 Flammable liquid	III
IMDG				
UN number:	Proper Shipping Na		Class or Division:	Packing Group:
UN1993	Flammable liquid, n.c	o.S.	3 Flammable liquid	III
EmS number:		F-E, S-E		
15. REGULATO	DRY INFORMATION			
This product is NC products not on th (i) These product 40 CFR 720.0 et s	le inventory list: s are supplied solely for us sec.	e in research and dev	elopment by or under the	wing notices are required by 40 CFR 720.36 (C) for those supervision of a technically qualified individual as defined in is or becomes available will be supplied on a SDS sheet.
US Federal Regu	lations			
CERCLA Hazard SARA 313 SARA 302		rtable Quantity: Not Listed Not Listed		
State Regulation	<u>s</u>			
State Right-to-Kr	างพ			
Massachu	usetts	Not Listed		
New Jers		Not Listed		
Pennsylva California Propo		Not Listed Not Listed		
Other Informatio	n			
NFPA Rating:			HMIS Classification:	
Health:	0		Health:	0
Flammability:	2		Flammability:	2
Instability:	0		Physical:	0
International Invo	entories			
WHMIS hazard c	lass:	B2: Flammable Liqui	d.	
16. OTHER INF	ORMATION			

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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.