

### **Revision number: 2** Revision date: 05/17/2016

#### **IDENTIFICATION** 1.

Product name:	3-(5-Methyl-2-furyl)propionaldehyde
Product code:	M2498

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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:	Flammable Liquids [Category 4]
Signal word:	Warning!
Hazard Statement(s):	Combustible liquid
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s): [Prevention] [Response] [Storage] [Disposal]	Keep away from heat, sparks, open flames or other hot surfaces No smoking. Wear protective gloves, eye protection and face protection. In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish. Store in 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: Components:	Substance 3-(5-Methyl-2-furyl)propionaldehyde
Percent:	>98.0%(GC)
CAS Number:	34756-16-6
Molecular Weight:	138.17
Chemical Formula:	$C_8H_{10}O_2$
Synonyms:	3-(5-Methyl-2-furyl)propanal

# 4. FIRST-AID MEASURES

Inhalation:

Call emergency medical service. 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.

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

	Emerg	gency te	elephon	e number:
	Chem	ical Eme	ergencie	S:
	TCI Ar	nerica (	8:00am	- 5:00pm) P
		3-286-7		,
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**TCI AMERICA** 

SAFETY DATA SHEET

- 5:00pm) PST 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

4. FIRST-AID MEASURES	
Skin contact:	Call a poison center or doctor if you feel unwell. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. 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 personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	If swallowed, seek medical advice immediately and show the container or label. 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:	No data available 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	
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides 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

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient. Use water spray or fog; do not use straight streams. Do not use straight streams. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Move containers from fire area if you can do it without risk.

# Special protective equipment for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

### 6. ACCIDENTAL RELEASE MEASURES

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 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:	Splash goggles. Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Isolate 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. 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.

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7. HANDLING AND STORAG Conditions for safe storage:	Keep only in the origina Store and use away fro incompatibles. Contain leakage. Avoid prolong	al container in a cool well-ventilated place. Hom heat, sparks, open flame, or any other ig ners which are opened must be carefully resigned storage periods. Store under inert gas (e	nition source. Keep away from ealed and kept upright to prevent
Storage incompatibilities:	Store away from oxidizing agents		
8. EXPOSURE CONTROLS /	PERSONAL PROTECTION		
Exposure limits:	No data available		
	e sufficient to control airborne level eas where there is any possibility t	ls. Ventilation is normally required when har har har workers could be exposed to the substa	
Personal protective equipment			
Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Vapor respirator. Be su Wear protective gloves Splash goggles. Lab coat.	ure to use a MSHA/NIOSH approved respira 3.	ator or equivalent.
9. PHYSICAL AND CHEMICA	L PROPERTIES		
Physical state (20°C): Form: Color: Odor: Odor threshold:	Liquid Clear Colorless - Yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available 58°C (136°F)/0.5kPa No data available 1.04 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 Pow)	1.64	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 avai	No data available lable
		Upper: No data avai	lable
Solubility(ies):			
10. STABILITY AND REACTI	VITY		
Reactivity: Chemical Stability: Possibility of Hazardous Reactio Conditions to avoid: Incompatible materials: Hazardous Decomposition Prod	Avoid excessive heat a Oxidizing agents	nable/explosive vapor-air mixture. and light.	
11. TOXICOLOGICAL INFOR	MATION		

3-(5-Methyl-2-furyl)propionaldehyde	TCI AMERICA	Pag	je 4 of 5
Acute Toxicity: No data available			
Skin corrosion/irritation: No data available			
Serious eye damage/irritation: No data available			
<b>Respiratory or skin sensitization:</b> 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			
	data base regarding the toxic effects of this material for hum		hould
Potential Health Effects:	industrial hygiene practices and wear proper protective equ eye contact may result in irriatation. May be harmful if inha No data available		
Potential Health Effects: No specific information available; skin and	l eye contact may result in irriatation. May be harmful if inha		
Potential Health Effects: No specific information available; skin and Target organ(s):	l eye contact may result in irriatation. May be harmful if inha		
Potential Health Effects: No specific information available; skin and Target organ(s): 12. ECOLOGICAL INFORMATION Ecotoxicity Fish: Crustacea:	l eye contact may result in irriatation. May be harmful if inha No data available No data available No data available No data available		
Potential Health Effects: No specific information available; skin and Target organ(s): <u>12. ECOLOGICAL INFORMATION</u> <u>Ecotoxicity</u> Fish: Crustacea: Algae: Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law:	l eye contact may result in irriatation. May be harmful if inha No data available No data available	ed or ingested.	urn in a provide sure ardous

# 14. TRANSPORT INFORMATION

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

# 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:	0
Flammability:	1
Instability:	0

### International Inventories

WHMIS hazard class: B3: Combustible Liquid. EC-No: 252-190-1

# 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.

### HMIS Classification:

Health:	0
Flammability:	1
Physical:	0