

Revision number: 2 Revision date: 10/06/2014

1. **IDENTIFICATION**

Product name: Product code:

2-Methylbutyl DL-2-Methylbutyrate M0578

For laboratory research purposes.

Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Emergency telephone number:

Transportation Emergencies:

+1-800-424-9300 (U.S.A.) +1-703-527-3887 (International)

Responsible department:

TCI America (8:00am - 5:00pm) PST

Environmental Health Safety and Security

Chemical Emergencies:

+1-503-286-7624

Chemtrec 24-Hour

+1-503-286-7624

TCI America

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:	Substance
Components:	2-Methylbutyl DL-2-Methylbutyrate
Percent:	>97.0%(GC)
CAS Number:	2445-78-5
Molecular Weight:	172.27
Chemical Formula:	$C_{10}H_{20}O_2$
Synonyms:	DL-2-Methylbutyric Acid 2-Methylbutyl Ester

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.

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		
Ingestion:	precautions to protect themselves. 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 che	nical		
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:	y 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.

EXPOSURE CONTROLS / PERSONAL PROTECTION xposure limits: No data available propriate engineering controls: ood general ventification should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash untains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering protection: Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. and protection: Splash goggles. Kin and body protection: Lab coat. PHYSICAL AND CHEMICAL PROPERTIES typical state (20°C): Liquid orn: Clear olor: Colorless - Slighthy pale yellow dor the available Vapor respirator. No data available the available vapor pressure: No data available thereare available vapor pressure: No data available thereare in the available vapor density: No data available tab cost: Vapor density: No data available tab: vapor density: No data available vap	2-Methylbutyl DL-2-Methylbutyrate	e TCI AMERIO	JA	Page 3 of		
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	1. TOXICOLOGICAL INFORM	ATION				

2-Methylbutyl DL-2-Methylbutyrate	TCI AMERICA	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
Reproductive toxicity: No data available		
be kept to a minimum. Always follow safe Potential Health Effects:	Inhalation, Eye contact, Ingestion. lata base regarding the toxic effects of this materia industrial hygiene practices and wear proper prote eye contact may result in irriatation. May be harm No data available	
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 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:		or's responsibility to comply with Federal, State and Local blve or mix material with a combustible solvent and burn in a

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

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15. REGULATORY INFORMATION

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

US Federal Regul	ations				
CERCLA Hazardo	us substance an	d Reportable Quantity:			
SARA 313:		Not Listed			
SARA 302:		Not Listed			
State Regulations					
State Right-to-Kno	w				
Massachu	setts	Not Listed			
New Jerse	у	Not Listed			
Pennsylvania		Not Listed			
California Propos	ition 65:	Not Listed			
Other Information					
NFPA Rating:			HMIS Classification:		
Health:	0		Health:	0	
Flammability:	2		Flammability:	2	
Instability:	0		Physical:	0	
International Inve	ntories				
WHMIS hazard cla		P2: Combustible Lieu	id		
EC-No:		219-497-2	B3: Combustible Liquid.		
LO-110.		210 -31 2			
16. OTHER INF	ORMATION				

Revision date: 10/06/2014

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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 gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.