



TCI AMERICA

SAFETY DATA SHEET

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Revision number: 0.9
Revision date: 04/08/2013

1. IDENTIFICATION

Product name: Methanol-d₁
Product code: M0551

Product use: For laboratory research purposes.
Restrictions on use: Not for drug or household use.

Company:
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Portland, OR 97203 U.S.A.
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Emergency telephone number:
Chemical Emergencies:
TCI America (8:00am - 5:00pm) PST
+1-503-286-7624
Transportation Emergencies:
Chemtrec 24-Hour
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+1-703-527-3887 (International)
Responsible department:
TCI America
Environmental Health Safety and Security
+1- 503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Flammable Liquids [Category 2]
Toxic to Reproduction [Category 1B]
Skin Corrosion/Irritation [Category 2]

Signal word: Danger!

Hazard Statement(s): Causes skin irritation
Highly flammable liquid and vapor
May damage fertility or the unborn child
Causes damage to: Visual System Central Nervous System
May cause respiratory irritation.
Causes damage to organs: Visual System Central Nervous System through prolonged or repeated exposure.

Pictogram(s) or Symbol(s):



Precautionary Statement(s):
[Prevention]

Wash hands and face thoroughly after handling. Wear protective gloves. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection. 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.

[Response]

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 exposed: Call a poison center or doctor. 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.

[Storage]
[Disposal]

Store locked up.
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)

Hazards not otherwise classified: [HNOCL] May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	Substance
Components:	Methanol-d ₁
Percent:
CAS Number:	1455-13-6
Molecular Weight:	33.05
Chemical Formula:	CH ₃ DO
Synonyms:	Deuteromethanol , Monodeuteromethanol

4. FIRST-AID MEASURES

Inhalation:	Move victim to fresh air. Call a poison center or doctor if you feel unwell. 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:	Remove and isolate contaminated clothing and shoes. In case of contact with substance, wipe from skin 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:	Move victim to fresh air. Check for and remove any contact lenses. In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. 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. If eye irritation persists get medical advice/attention.
Ingestion:	If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Harmful if swallowed. Rinse mouth. Keep victim warm and quiet. Loosen tight clothing such as a collar, tie, belt or waistband. If swallowed, seek medical advice immediately and show the container or label. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. If exposed or concerned consult a physician.
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
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Specific hazards arising from the chemical

Hazardous combustion products:	These products include: Carbon oxides
Other specific hazards:	Effects of contact or inhalation may be delayed. Vapors may travel to source of ignition and flash back. Vapors from liquefied gas are initially heavier than air and spread along ground.

Special precautions for fire-fighters:

Do not use straight streams. 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	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.
Personal protective equipment:	Spash goggles. Vapor respirator. Lab coat. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves.
Emergency procedures:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in the immediate area). In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

All equipment used when handling the product must be grounded. A vapor suppressing foam may be used. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

Environmental precautions:

Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE

Precautions for safe handling:	Good general ventilation should be sufficient to control airborne levels. Normal measures for preventive fire protection. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Conditions for safe storage:	Hygroscopic material, store in a tightly sealed container. Store under inert gas (e.g. Argon). Store locked up. Keep container tightly closed in a dry and well-ventilated place.
Storage incompatibilities:	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. 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):	Liquid
Form:	clear
Color:	Colorless
Odor:	No data available.
Odor threshold:	No data available

Melting point/freezing point:	98°C (208°F)	pH:	No data available
Boiling point/range:	66°C (150°F)	Vapor pressure:	130.3 hPa @ 20°C
Decomposition temperature:	No data available	Vapor density:	No data available
Relative density:	0.82	Viscosity:	No data available
Partition coefficient:	-0.77	Evaporation rate:	No data available
n-octanol/water (log P_{ow})		(Butyl Acetate = 1)	

Flash point:	11°C (51°F)	Autoignition temperature:	455°C
Flammability (solid, gas):	No data available	Flammability or explosive limits:	
		Upper:	36%
		Lower:	6%

Solubility(ies): Soluble in Water; Miscible with: Ethanol, Ether, Benzene, Ketones.

10. STABILITY AND REACTIVITY

Reactivity:	Not Available.
Chemical Stability:	Hygroscopic.
Possibility of Hazardous Reactions:	No hazardous reactivity has been reported.
Conditions to avoid:	Avoid excessive heat and light.
Incompatible materials:	Acids, Acid chlorides, Acetic anhydride, Alkali metals, Oxidizing agents, Reducing agents
Hazardous Decomposition Products:	No data available

11. TOXICOLOGICAL INFORMATION

RTECS Number: No data available

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:

Inhalation, Eye contact, Ingestion, Skin contact.

Symptoms related to exposure:

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound.

Potential Health Effects:

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

Target organ(s): No data available

Causes damage to: Visual System Central Nervous System

May cause respiratory irritation.

Causes damage to organs: Visual System Central Nervous System through prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Fish:** No data available**Crustacea:** No data available**Algae:** No data available**Persistence and degradability:**

No data available

Bioaccumulative potential (BCF):

No data available

Mobility in soil:

No data available

Partition coefficient:

-0.77

n-octanol/water (log P_{ow})**Soil adsorption (K_{oc}):**

No data available

Henry's Law:

No data available

constant (PaM³/mol)**13. DISPOSAL CONSIDERATIONS****Disposal of product:** Recycle to process if possible.**Disposal of container:** Dispose of as unused product.**Other considerations:** Observe all federal, state and local regulations when disposing of the substance.**14. TRANSPORT INFORMATION****DOT (US)****UN number:**

UN1230

Proper Shipping Name:

Methanol

Class or Division:

3 Flammable liquid

Subrisk(s):

6.1 Toxic material.

Packing Group:

II

IATA**UN number:**

UN1230

Proper Shipping Name:

Methanol

Class or Division:

3 Flammable liquid

Subrisk(s):

6.1 Toxic material.

Packing Group:

II

IMDG**UN number:**

UN1230

Proper Shipping Name:

Methanol

Class or Division:

3 Flammable liquid

Subrisk(s):

6.1 Toxic material.

Packing Group:

II

15. REGULATORY INFORMATION**Toxic Substance Control Act (TSCA 8b.):**

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations**CERCLA Hazardous substance and Reportable Quantity:**

SARA 313:	Listed
SARA 302:	Not Listed

State Regulations**State Right-to-Know**

Massachusetts	Listed
New Jersey	Listed
Pennsylvania	Listed
California Proposition 65:	Not Listed

Other Information**NFPA Rating:**

Health:	3
Flammability:	4
Instability:	0

HMIS Classification:

Health:	3
Flammability:	4
Physical:	0

International Inventories

EC-No:	215-933-0
Notice Through Official Gazettes Reference Number: (Japan)	
ENCS:	(2)-201

16. OTHER INFORMATION

Revision date: 04/08/2013

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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.