



Safety Data Sheet

Version 7.2
Revision Date: 20/02/2024

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **d5-Methacrylamide**
Product abbreviation: D5MAMD
Product use: For laboratory research purposes.
Supplier / Manufacturer: Polymer Source, Inc.
Address: 124 Avro street, Dorval (Montreal), Quebec H9P 2X8, Canada
Telephone: (+1) 514-421-5517
Toll free: 1-866-422-9842
Fax: (+1) 514-421-5518
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E-mail: support@polymersource.com

2. HAZARDS IDENTIFICATION

Emergency overview: GHS classification: Acute toxicity, Oral (Category 4), H302.
Eye irritation (Category 2), H319.
Specific target organ toxicity – single exposure (Category 2), H371
Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity – repeated exposure (Category 2), H373
For the full text of the H-statements mentioned in this sector, see Section 16.

GHS Label elements, including precautionary statements:

Pictogram:



Signal word: Warning

Hazard statements: H302. Harmful if swallowed.
H319. Causes serious eye irritation.
H335. May cause respiratory irritation.
H371. May cause damage to organs.
H373. May cause damage to organs through prolonged or repeated exposure.

Precautionary statements: P260. Do not breathe dust.
P264. Wash skin thoroughly after handling.

P271. Use only outdoors or in a well-ventilated area.

P301 + P312. If swallowed: Immediately call a Poison Center or doctor/physician.

P305 + P351 + P338. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313. If exposed or concerned: Get medical advice / attention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Formula:	Methacrylamide-d ₅ :	C ₄ H ₂ D ₅ NO
Molecular weight:		90.10 g/mol
Concentration:		≥ 98 %
CAS registry number:	Methacrylamide:	79-39-0
	Deuterated Methacrylamide:	NA

4. FIRST AID MEASURES

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact:	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use water foam, carbon dioxide, dry powder.
Special protective equipment for firefighters:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or wearing suitable protective clothing.
Special hazardous arising from the substance or mixture:	Carbon oxides Nitrogen oxides (NO _x) Combustible Development of hazardous combustion gases or vapours possible in the event of fire
Further information:	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental precautions:	Do not let product enter drains.
Methods and materials for containment and cleaning up:	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

7. HANDLING AND STORAGE

Precautions for safe handling:	Work under hood. Do not inhale substance/mixture. Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.
Conditions for safe storage:	Keep container tightly closed in a dry place. Storage class (TRGS 510): 11: Combustible Solids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters:

Personal protective equipment:

- Respiratory protection: Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P2

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.
- Eye protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin and body protection: This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min
Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet,

supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

- Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
- Specific engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form:	solid
	Colour:	no data available
Safety data:	pH:	no data available
	Melting point / Freezing point:	111 °C
	Boling point:	no data available
	Flash point:	no data available
	Ignition temperature:	no data available
	Auto-ignition temperature:	no data available
	Lower explosion limit:	no data available
	Upper explosion limit:	no data available
	Vapour pressure:	no data available
	Density:	no data available
	Water solubility:	no data available
	Partition coefficient: n-octanol/water:	no data available
	Relative vapour density:	no data available
	Odour:	no data available
	Odour threshold:	no data available
	Evaporation rate:	no data available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Radioactivity:	Stable isotope compound. Not radioactive.
Possibility of hazardous reactions:	no data available
Conditions to avoid:	no data available
Materials to avoid:	no data available
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions: Carbon oxides (CO _x), Nitrogen oxides (NO _x).

Other decomposition products: no data available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral LD50:	no data available
	Inhalation LC50:	no data available
	Dermal LD50:	no data available
	Other information on acute toxicity:	no data available
Skin corrosion/irritation:	no data available	
Serious eye damage/eye irritation.		
Respiratory or skin sensitization:	May cause sensitization by inhalation.	
Germ cell mutagenicity:	In vivo tests showed mutagenic effects.	
Carcinogenicity:	Possible human carcinogen.	
	IARC: Group 2A:	
	Probably carcinogenic to humans (Acrylamide-2,3,3-d3).	
Reproductive toxicity:	no data available	
Teratogenicity:	no data available. Suspected human reproductive toxicant.	
Specific target organ toxicity:	Single exposure (Globally Harmonized System):	no data available
	Repeated exposure (Globally Harmonized System):	no data available
Aspiration hazard:	no data available	
Potential health effects:	Inhalation:	Toxic if inhaled. Causes respiratory tract irritation.
	Ingestion:	Toxic if swallowed.
	Skin:	Causes skin irritation.
	Eyes:	Causes eye irritation.
Synergistic effects:	no data available	
Additional information:	RTECS:	not available

12. ECOLOGICAL INFORMATION

Toxicity:	no data available
Persistence and degradability:	no data available
Bioaccumulative potential:	no data available
Mobility in soil:	no data available
PBT and vPvB assessment:	no data available
Other adverse effects:	no data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	No data available
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14. TRANSPORT INFORMATION

DOT (US):	not dangerous goods
IMDG:	not dangerous goods
IATA:	not dangerous goods

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

Full text of H-statements referred to under sections 2 and 3

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H371	Harmful if swallowed.
H373	Causes serious eye irritation

Date of the latest revision: 20 Februray 2024

Further information: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Polymer Source, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.polymersource.ca for additional terms and conditions of sale.