



# Safety Data Sheet

## N-Methyl-N-TMS-Trifluoroacetamide

### Section 1. Identification

Product Identifier N-Methyl-N-TMS-Trifluoroacetamide  
Synonyms MSTFA  
Manufacturer Stock Numbers MSTFA  
Product Cas 24589-78-4

Recommended use N/A  
Uses advised against N/A

#### Manufacturer Contact

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US

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CHEMTREC Emergency  
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703-527-3887

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manastasio@unitedchem.com

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### Section 2. Hazards Identification

Classification EYE DAMAGE/IRRITATION - Category 2A  
FLAMMABLE LIQUIDS - Category 3  
SKIN CORROSION/IRRITATION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3  
Signal Word Warning

Pictogram



Hazard Statements

Causes serious eye irritation  
Causes skin irritation  
Flammable liquid and vapor  
May cause respiratory irritation; or May cause drowsiness or dizziness

Precautionary Statements

Response

If eye irritation persists: Get medical advice/attention.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.

Prevention

Keep away from heat.  
Keep container tightly closed.  
Take precautionary measures against static discharge.  
Use only non-sparking tools.  
Use only outdoors or in a well-ventilated area.

Storage

Store in a well-ventilated place. Keep cool.  
Store locked up.

Disposal

N/A

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified

No Data Available

### Section 3. Ingredients

CAS	Ingredient Name	Weight %
24589-78-4	N-Methyltrimethylsilyltrifluoroacetamide	Unknown

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-Aid Measures

General

Consult a physician. Show this safety data sheet to the doctor in attendance.  
Move out of dangerous area

Eye

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.

Skin	Immediately flush with large amounts of water. Use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention.
Ingestion	Get medical attention immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Acute Effects	Direct contact with the product may irritate eyes, skin, mouth and respiratory tract. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.
Comments	If symptoms persist, get medical attention. Never give anything by mouth to an unconscious person.

## Section 5. Fire Fighting Measures

Suitable Extinguishing Media	CO2, foam, dry chemical Carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), halogenated compounds. Firefighters must wear positive pressure, self-contained breathing apparatus and full protective clothing
Unsuitable Extinguishing Media	N/A

## Section 6. Accidental Release Measures

General	Secure the spill area. Absorb spill with inert material. Ventilate spill area. DO NOT attempt clean up with water. Provide diking or other appropriate containment to keep material from spreading. Clean up remaining material from spill with suitable absorbent. Keep unnecessary and unprotected personnel from entering.
Spill	Evacuate spill area of non-essential personnel. Ventilate the spill area. Cover liquid completely (smother) with dry Sodium Bicarbonate and blanket spill area with inert gas. Place spill material in dry, lined waste container before transporting for disposal. Keep all source of ignition away from spill area until clean-up is complete.
General Procedure	Absorb spill material with suitable chemical binder. Shovel absorbent into suitable waste container. Do not wash into sewer or soil, groundwater or surface water.

## Section 7. Handling and Storage

Handling	Avoid breathing vapors from heated material. Avoid contact with skin and eyes. Ground and bond containers when transferring material.
Storage	Keep away from sources of ignition. Keep away from heat, sparks, and flame. Store in a cool and dry place. Protect from heat, direct sunlight, and source of ignition. Store away from organic materials and reducing agents. Maintain tightly closed container. Provide adequate ventilation.

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	N-Methyltrimethylsilyltrifluoroacetamide	N/A	N/A	N/A
Personal Protective Equipment	Gloves			
Engineering Controls	Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.			
Eye and Face	Use chemical goggles			
Skin	Use impervious gloves. Use impervious clothing as necessary to protect against skin contact			
Respiratory	Maintain adequate ventilation. Mechanical ventilation recommended. In case of exposure, use appropriate NIOSH approved respiratory protection.			
Work Hygienic Practices	General industrial hygiene practice			
Comments	To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment, in accordance with the OSHA PPE Standard (29 CFR 1910.132), be conducted before using this product.			

## Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Pale Yellow
Odor	N/A
Odor Threshold	N/A
Solubility	N/A
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	1.075
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	24C/75.2F
FP Method	N/A
pH	N/A
Melting Point	N/A
Boiling Point	137C
Boiling Range	N/A
LEL	1.2
UEL	N/A
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A
Vapor Pressure	8.8 @ 20C
Vapor Density	N/A

## Section 10. Stability and Reactivity

Stability	(Under Normal Conditions) Stable under ordinary conditions of use and storage
Polymerization	Hazardous polymerization will not occur
Conditions to Avoid	Water and moist air
Incompatible Materials	Oxidizing agents, alkali and acids

## Section 11. Toxicological Information

Eye	Can cause severe injury.
Skin	Causes skin irritation.

## Section 12. Ecological Information

Environmental Data	No information available
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## Section 13. Disposal

Method	Incineration recommended. Follow all federal, state and local regulations
Empty Container	Containers of this material may be hazardous when empty since they retain product residues (liquids). Observe all warnings and precautions listed for this product.
Comments	<p>It is recommended that waste generators determine whether a discarded chemical is classified as a hazardous waste.</p> <p>Additionally, waste generators must consult with their waste broker and state and local hazardous waste regulations to insure complete and accurate classification.</p> <p>Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements.</p> <p>US EPA guidelines for classification determination are listed on 40CFR Parts 261.3</p>

## Section 14. Transport Information

UN Number	1993
UN Proper Shipping Name	Flammable liquids, n.o.s. ( N-Methyl-N-trimethylsilyltrifluoroacetamide)
DOT Classification	3
Packing Group	III

## Section 15. Regulatory Information

TSCA	United States
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TSCA (Toxic Substance Control Act)  
Status: This product is listed on the TSCA inventory

## Section 16. Other Information

Revision Date

4/11/2016

Manufacturer Disclaimer

The data in this Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

Manufacturer  
Supplemental Notes  
Statement

All technical data is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

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