



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
230	Health Hazard 2 Fire Hazard 3	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	N-Methyl-N-(trimethylsilyl)trifluoroacetamid	Catalog Number(s).	M2751
		CAS#	24589-78-4
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	AC9800000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: N-Methyl-N-(trimethylsilyl)triflu
Commercial Name(s)	MSTFA	CI#	Not available.
Synonym	N-Trimethylsilyl-N-methyltrifluoroacetamide	DV CASE OF	EMEDGENOV
Chemical Name	Acetamide, 2,2,2-trifluoro-N-methyl-N-(trimethylsilyl)-		EMERGENCY (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5	16-8000
Chemical Formula	C6-H12-F3-N-O-Si		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition and Information on Ingredients					
			Exposure Limits		
Name	CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) {N-}Methyl-N-(trimethylsilyl)trifluoroacetamide	24589-78-4				100
Toxicological Data N-Methyl-N-(trimethylon Ingredients LD50: Not available.	• • •	amide			

Section 3. Hazards Identification

Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Slightly hazardous

in case of ingestion, .

LC50: Not available.

Potential Chronic Health

Effects

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.	
Serious Ingestion	Not available.	

Page Number: 2

Section 5. Fire and E.	Section 5. Fire and Explosion Data		
Flammability of the Product	Flammable.		
Auto-Ignition Temperature	Not available.		
Flash Points	CLOSED CUP: 25°C (77°F).		
Flammable Limits	LOWER: 1.2%		
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2), halogenated compounds.		
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks, of heat.		
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks, of heat.		
Fire Fighting Media and Instructions	Flammable liquid. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.		
Special Remarks on Fire Hazards	Not available.		
Special Remarks on Explosion Hazards	Not available.		

Section 6. Accidental Release Measures		
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.	
Large Spill	Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.	

N-Methyl-N-	(trimoth	/leily/	\trifluoroa	cotamid
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Section 7. Har	Section 7. Handling and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.		
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Moisture sensitive. Refrigerate. Store under inert gas.		

Page Number: 3

Section 8. Exposure Controls/Personal Protection		
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.	
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Exposure Limits	Not available.	

Section 9. Physical a	Section 9. Physical and Chemical Properties		
Physical state and appearance	Liquid.	Odor	Not available.
Molecular Weight	199.2 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Clear Colorless.
Boiling Point	130°C (266°F) - 132 C.		
Melting Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	1.074 (Water = 1)		
Vapor Pressure	1.2 kPa (@ 27°C)		
Vapor Density	6.87 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Not available.		

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Heat, ignition sources, incompatible materials	
Incompatibility with various substances	Reactive with oxidizing agents.	

Continued on Next Page

N-Methyl-N-(trimethylsilyl)trifluoroacetamid		Page Number: 4
Corrosivity	Not available.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	Will not occur.	

Section 11. Toxicological Information					
Routes of Entry	Absorbed through skin. Eye contact. Ingestion.				
Toxicity to Animals	LD50: Not available. LC50: Not available.				
Chronic Effects on Humans	Not available.				
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Slightly hazardous in case of ingestion, .				
Special Remarks on Toxicity to Animals	Not available.				
Special Remarks on Chronic Effects on Humans	Not available.				
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation. Inhalation: Inhalation of mist or vapors may cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. Ingestion of large amounts may affect behavior/central nervous system and cause central nervous system depression.				

Section 12. Ecological Information				
Ecotoxicity	Not available.			
BOD5 and COD	Not available.			
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.			
Toxicity of the Products of Biodegradation	The products of degradation are more toxic than the product itself.			
Special Remarks on the Products of Biodegradation	Not available.			

Section 13. Disposal Considerations Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

N-Methyl-N-(trimethylsilyl)trifluoroacetamid				
Section 14. Transport Information				
DOT Classification	CLASS 3: Flammable liquid.			
Identification	: Flammable liquid, n.o.s.(N-methyl-N-(trimethylsilyl)trifluoroacetamide) UNNA: 1993 PG	S: III		
Special Provisions for Transport	Not available.			
DOT (Pictograms)	71.MMMH 1987)			

Section 15. Other Regulatory Information and Pictograms							
Federal and State Regulations	TSCA 8(b) inventory: N-Methyl-N-(trimethylsilyl)trifluoroacetamide						
Cafforma Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.						
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 246-331-6). Canada: Listed on Canadian Non-Domestic Substances List (NDSL). China: Listed on National Inventory. Japan: Not listed on National Inventory (ENCS). Korea: Not listed on National Inventory (KECI). Philippines: Not listed on National Inventory (PICCS). Australia: Listed on AICS.						
Other Classifications	WHMIS (Canada) DSCL (EEC)	CLASS B-2: Flammable liquid with a flas CLASS D-2B: Material causing other tox R10- Flammable. R36/37/38- Irritating to eyes, respiratory system and skin.					
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection		ional Fire Protection ociation (U.S.A.)	Health	2 0	Flammability Reactivity Specific hazard	
WHMIS (Canada) (Pictograms)		Ţ					

N-Methyl-N-(trimethylsilyl)trifluoroacetamid

DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Page Number: 6



Splash goggles.

Section 16. Other Information

MSDS Code M0537

References Not available.

Other Special Not available.
Considerations

Validated by Sonia Owen on 6/26/2007. Verified by Sonia Owen.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

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