

N-Methyl-bis(trifluoroacetamide) Safety Data Sheet 41483X2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/08/2017 Version: 1.0

SECTION 1: Identification 1.1. Identification Product form : Substance Substance name : N-Methyl-bis(trifluoroacetamide) CAS No : 685-27-8 Product code : 4148-3-X2 Formula : C5H3F6NO2 Synonyms : MBTFA; 2,2,2-Trifluoro-N-methyl-N-(2,2,2-trifluoroacetyl)acetamide Other means of identification : MFCD00000412 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-7087 T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com 1.4. Emergency number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 21. Classification of the substance or mixture Classification of the substance or mixture Classification of the substance or mixture Classification of the substance or mixture Classification of the substance or	
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Skin Corr. 1A H314 - Causes severe skin burns and eye damage Eye Dam. 1 H318 - Causes serious eye damage	
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US) :	
Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H226 - Flammable liquid and vapor	
H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation	
 Precautionary statements (GHS-US) P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P260 - Do not breathe dust/fume/gas/mist/vapors/spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face prote P301+P330+P361+P353 - If on skin (or hair): Take off immediately all contamina skin with water/shower 	1
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable P305+P351+P338 - If in eyes: Rinse cautiously with water for several minu	ted clothing. Rinse for breathing

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		P310 P321 P363 P370 P403 P403 P405	s, if present and easy to do. Continue rin - Immediately call a POISON CENTER of - Specific treatment (see supplemental f - Wash contaminated clothing before reu +P378 - In case of fire: Use dry sand, dry +P233 - Store in a well-ventilated place. +P235 - Store in a well-ventilated place. - Store locked up - Dispose of contents/container to an ap	or doctor/ physic irst aid instructio use v chemical or alo Keep container Keep cool	ons on this label) cohol-resistant foam to extinguish tightly closed
2.3.	Other hazards				
No additi	ional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not appli	icable				
SECTI	ON 3: Composition/information	on in	gredients		
3.1.	Substance				
Substand	ce type :	Mond	o-constituent		
Name			Product identifier	%	Classification (GHS-US)
N-Methy (Main con	/I-bis(trifluoroacetamide) stituent)		(CAS No) 685-27-8	<= 100	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335
-ull text	of H-phrases: see section 16		· · · ·		·
3.2.	Mixture				
Not appli	icable				
SECTI	ON 4: First aid measures				
.1.	Description of first aid measures				
irst-aid	measures general :		se of accident or if you feel unwell, seek repossible). Move the affected personnel		
First-aid	measures after inhalation :		ove person to fresh air and keep comforta ration. Get immediate medical advice/atte		g. If not breathing, give artificial
First-aid	measures after skin contact :		with plenty of soap and water. Remove cal advice/attention.	contaminated cl	othing and shoes. Get immediate
First-aid measures after eye contact :		Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid	measures after ingestion :		OT induce vomiting. Never give anything h out with water. Get immediate medical		
.2.	Most important symptoms and effects,	, both	acute and delayed		
Symptom	ns/injuries :		nost important known symptoms and effe and/or in section 11.	ects are describe	ed in the labelling (see section
Symptom	ns/injuries after inhalation :		rial is destructive to tissue of the mucuou ness of breath, headache, nausea.	s membranes a	nd upper respiratory tract. Cough,
4.3.	Indication of any immediate medical at	ttentio	n and special treatment needed		
Freat syr	mptomatically.				
SECTI	ON 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable			ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2.	Special hazards arising from the subst	tance of	or mixture		
Fire haza	ard :	Therr	nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides.
Explosio	n hazard :		of explosion if heated under confinement iners. May form flammable/explosive vap		ay or fog for cooling exposed
5.3.	Advice for firefighters				
Firefighti	ng instructions :	In cas	se of fire: Evacuate area. Fight fire remot	ely due to the ris	sk of explosion.
Protectio	on during firefighting :	Wear	gas tight chemically protective clothing i ratus. For further information refer to sect	n combination w	rith self contained breathing e controls/personal protection".

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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.		
6.2. Environmental precautions			
Avoid release to the environment. Notify authorit	ies if product enters sewers or public waters.		
6.3. Methods and material for containme	ent and cleaning up		
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.		
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
6.4.Reference to other sectionsNo additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.		
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Moisture sensitive. Keep contents under inert gas.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage area	: Store in dry, cool, well-ventilated area.		

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

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SECTION 9: Physical and chemica	
9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 123 - 124 °C
Flash point	: 42 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.547 g/ml (@ 25 °C)
Molecular mass	: 223.07 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.346 (@ 20 °C)
SECTION 10: Stability and reactiv	ity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and	storage conditions.
10.3. Possibility of hazardous reaction	-
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flame.	
10.5. Incompatible materials	
Strong acids. Strong oxidizing agents.	
10.6. Hazardous decomposition produ	
Under normal conditions of storage and use, fire, see Section 5.	hazardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological inform	hation
11.1. Information on toxicological effe	cts
Acute toxicity	: Not classified
	· Causas savara skin huras and ava damaga
Skin corrosion/irritation	Causes severe skin burns and eye damage. Causes serious eve damage
Serious eye damage/irritation	: Causes serious eye damage.
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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTI	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional information available
12.5.	Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.		
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Additional information	: Recycle the material as far as possible.		
SECTION 14: Transport informati	on		

Department of Transportation (DOT) In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Nam

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

- : UN2920 Corrosive liquids, flammable, n.o.s., 8, II
- : UN2920
- : Corrosive liquids, flammable, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive
- 3 Flammable liquid



- : II Medium Danger
- : 202
- : 243
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: None
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 25 - Shade from radiant heat, 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2920
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 2920
Proper Shipping Name (IATA)	: Corrosive liquid, flammable, n.o.s.
Class (IATA)	8 - Corrosives
Packing group (IATA)	: II - Medium Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	

No additional information available

EU-Regulations

No additional information available

National regulations

N-Methyl-bis(trifluoroacetamide) (685-27-8)

Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

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SECTION 16: Other information

Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
NFPA health hazard	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 2 Austice and the second sec
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
SDS US (GHS HazCom 2012)	

SDS US (GHS HazCom 2012)

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 offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.