

Safety Data Sheet per OSHA HazCom 2012



Product name: N-Methyl-N-(trimethylsilyl)trifluoroacetamide

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4 First-aid measures	(Ounta. or page
Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.	
For safety reasons unsuitable extinguishing agents Water	
Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Nitrogen oxides (NOx)	
Hydrogen fluoride (HF) Silicon oxide	
Advice for firefighters Protective equipment:	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation Keep away from ignition sources	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up:	
Keep away from ignition sources.	
Absorb with inquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on safe handling	
Do not flush with water or aqueous cleansing agents Prevention of secondary hazards: Keep away from ignition sources.	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
Handling Precautions for safe handling	
Handle under dry protective gas. Keen container lingtly sealed	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires:	
Information about protection against explosions and fires:	
Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.	
Keep ignition sources away. Conditions for safe storage, including any incompatibilities	
Storage Requirements to be met by storerooms and receptacles: No special requirements	
Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions:	
Store under dry inert gas. Keep container tightly sealed.	
Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection Additional information about design of technical systems:	
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters	
Components with limit values that require monitoring at the workplace: Not required. Additional information: No data	
Exposure controls	
Personal protective equipment General protective and hygienic measures	
The usual precautionary measures for handling chemicals should be followed	
Keep away from foodstuffs, beverages and feed.	
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.	
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Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves	
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Body protection: Protective work clothing.

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9 Physical and chemical properties				
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	emical properties Liquid Yellow tint Not determined Not determined.			
pH-value:	Not determined.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 130-132 °C (266-270 °F) Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	25 °C (77 °F) Not determined Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Not determined Not determined 1.075 g/cm ³ (8.971 lbs/gal) Not determined. Not determined. Not determined. Not determined.			
Partition coefficient (n-octanol/water). Viscosity: dynamic: kinematic: Other information				
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen fuluoride Silicon oxide				
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Immunological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.				
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment without proper governmental permits. Do not allow rundiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.				
13 Disposal considerations Waste treatment methods Recommendation Consult state, local c	or national regulations to ensure proper disposal.	(Contd. on page 4)		

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Uncleaned	packaumus.
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Uncleaned packagings: Recommendation: Disposal must be made according to	conficial regulations.
14 Transport information	
UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT IMDG, IATA	Flammable liquids, n.o.s. (N-Methyl-N-(trimethylsilyl)trifluoroacetamide) FLAMMABLE LIQUID, N.O.S. (N-Methyl-N-(trimethylsilyl)trifluoroacetamide)
Transport hazard class(es)	
Class	3 Flammable liquids.
Label Class	3 (F1) Flammable liquids
Label IMDG, IATA	3
•	
Class Label	3 Flammable liquids. 3
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPOL7	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1993, Flammable liquids, n.o.s. (N-Methyl-N-(trimethylsilyl)trifluoroacetamide)
GHS02 GHS07	
Signal word Warning Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P210 Keep away from heat/sparks/open fla P261 Avoid breathing dust/fume/gas/mist/v. P303+P361+P353 If on skin (or hair): Take off immediate P305+P351+P338 IF IN EYES: Rinse cautiously with wa P405 Store locked up. P501 Dispose of contents/container in accor National regulations All components of this product are listed in the U.S. Envi All components of this product are listed on the Canadial SARA Section 313 (specific toxic chemical listings) S California Proposition 65 Prop 65 - Developmental toxicity, Substance is not liste Prop 65 - Developmental toxicity, male Substance is Information about limitations and prohibitive regulat Substance of Very High Concern (SVHC) according t The conditions of restrictions according to Article 67 market and use must be observed. Substance is not listed.	ely all contaminated clothing. Rinse skin with water/shower. ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. brdance with local/regional/national/international regulations. ironmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. n Non-Domestic Substances List (NDSL). Substance is not listed. ed. s not listed. act isted. hort listed. hort set. tions to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. T and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t horisation for use) Substance is not listed.
information to ensure proper use and protect the health a	essment has not been carried out. nent to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not i combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Departmen Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms:	

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods



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- DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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USA