

Safety Data Sheet per OSHA HazCom 2012

1 Identification	
Product identifier Product name: 2-Methyl-5-nitrobenzotrifluoride	
Stock number: H64924	
CAS Number: 89976-12-5	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660	
Fex: 800-322-4757 Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled.	
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
Label elements	
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
\wedge	
GHS07	
Signal word Warning	
Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 May cause respirátory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351-P388 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D1B - Toxic material causing immediate and serious toxic effects	
D2B - Toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4)	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2 FIRE 1 Flammability = 1	
REACTIVITY Physical Hazard = 1 Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description: 80076 42.5 2 Methyl 5 pitrobenzetriflueride	
89976-12-5 2-Methyl-5-nitrobenzotrifluoride	
4 First-aid measures Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek immediate medical advice.	l. on page 2)
	USA -/

(Contd. of page 1) After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye 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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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 Hydrogen fluoride (HF) Nitrogen oxides (NOx) 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 **Environmental precautions:** Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Provide a dequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling 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. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eves and etime.

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present. **Recommended filter device for short term use:** Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. **Protection of hands:**

Impervious gloves

Impervious gioves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

(Contd. on page 3)

USA

		(Contd. of page 2)
9 Physical and chemical properties		
Information on basic physical and ch		
General Information Appearance:		
Form: Color:	Solid Off-white	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.	
Ignition temperature: Decomposition temperature:	Not determined	
Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recom	mended storage conditions.	
Possibility of hazardous reactions Re	to be avoided: Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents	
Conditions to avoid No further relevant Incompatible materials:	t information available.	
Water/moisture		
Oxidizing agents Hazardous decomposition products:		
Carbon monoxide and carbon dioxide		
Hydrogen fluoride Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity:		
Harmful if inhåled. Harmful in contact with skin.		
Harmful if swallowed. Danger through skin absorption.		
LD/ĽC50 values that are relevant for c	classification: No data	
Skin irritation or corrosion: Causes sk Eye irritation or corrosion: Causes se		
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	own.	
Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data	own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	vn.	
Specific target organ system toxicity	- repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known.		
Additional toxicological information:	ts known. 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 inf Persistence and degradability No furth	formation available.	
Bioaccumulative potential No further r	relevant information available.	
Mobility in soil No further relevant infor Additional ecological information:	mation available.	
General notes:		
ס חסנ מווטא unalluted product or large o Avoid transfer into the environment	quantities to reach ground water, water course or sewage system.	
Results of PRT and vPvR assessment	f	
PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva		
Uther adverse effects No further releva	ant Information available.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state local of	or national regulations to ensure proper disposal.	
		(Contd. on page 4)
		USA

Uncleaned packagings:

(Contd. of page 3)

Transport information	
UN-Number DOT, IMDG, IATA	UN2811
UN proper shipping name	0/1/2011
DOT IMDG, IATA	Toxic solids, organic, n.o.s. (2-Methyl-5-nitrobenzotrifluoride) TOXIC SOLID, ORGANIC, N.O.S. (2-Methyl-5-nitrobenzotrifluoride)
Transport hazard class(es)	
DOT	
Tax	
Class Label	6.1 Toxic substances. 6.1
Class	6.1 (T2) Toxic substances
Label IMDG, IATA	6.1
æ	
Class	6.1 Toxic substances.
Label Packing group	6.1
Packing group DOT, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A
Transport in bulk according to Annex II of MARPOL73/78	and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (2-Methyl-5-nitrobenzotrifluoride), 6.1, III
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled in Hazard pictograms GHS07	<i>specific for the substance or mixture</i> accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms GHS07 Signal word Warning Hazard statements	
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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 DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent US0: Lethal concentration, 50 percent VPWE 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) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA