

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 4-Nitro-2-(trifluoromethyl)anisole Stock number: B21502, L06529 CAS Number: 654-76-2 EC number: 211-507-3 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. Inerrito Fisher Scheman C. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 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) EZ GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. 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 E.F. GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not b Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material of the Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 3 Health (acute effects) = 31 Flammability = 1Physical 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: 654-76-2 4-Nitro-2-(trifluoromethyl)anisole Identification number(s): EC number: 211-507-3 4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. 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. (Contd. on page 2)

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After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor		(Contd. of page 1)
Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage.		
Indication of any immediate medical a	attention and special treatment needed No further relevant information available.	
Special hazards arising from the subs If this product is involved in a fire, the foll Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen fluoride (HF) Advice for firefighters	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture llowing can be released:	
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 material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required.		
Reference to other sections		
See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.	al protection equipment.	
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. a any incompatibilities ans and receptacles: No special requirements. amon storage facility: Store away from oxidizing agents. anditions: and containers.	
8 Exposure controls/personal prote Additional information about design o Properly operating chemical fume hood	e ction of technical systems: 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. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes 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.		
Protection of hands.	te for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
9 Physical and chemical properties		
Information on basic physical and che		
General Information Appearance: Form:	Crystalline powder	
Color: Odor:	White to pale yellow Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	(Contd. on page 3)
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Product name: 4-Nitro-2-(trifluorome	ethyl)anisole	
		(Contd. of page 2)
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	79-81 °C (174-178 °F) Not determined Not determined	
Flash point:	Not applicable Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper: Vapor pressure: Density: Relative density Vapor density	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.	
	Not determined	
dynamic:	Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomn Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride	t information available.	
LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects know Carcinogenicity: No classification data of Reproductive toxicity: No effects known Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	evere skin burns. rious eye damage. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. /n. - repeated exposure: No effects known. - single exposure: No effects 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 material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment without 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 of Uncleaned packagings: Recommendation: Disposal must be ma	or national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information		
UN-Number DOT, IMDG, IATA	UN1759	
UN proper shipping name DOT IMDG, IATA	Corrosive solids, n.o.s. (4-Nitro-2-(trifluoromethyl)anisole) CORROSIVE SOLID, N.O.S. (4-Nitro-2-(trifluoromethyl)anisole)	
		(Contd. on page 4)

(Contd. on page 4)

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Product name: 4-Nitro-2-(trifluoromethyl)anisole			
	(Contd. of page 3)		
Transport hazard class(es)			
DOT			
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Class	8 Corrosive substances.		
Label Class	o 8 (C10) Corrosive substances		
Label IMDG, IATA	8		
Class	8 Corrosive substances.		
Label	8		
Packing group DOT, IMDG, IATA	11		
Environmental hazards:	Not applicable.		
Special precautions for user	Warning: Corrosive substances		
Transport in bulk according to Annex II of MARPOL73/7	78 and the IBC Code Not applicable.		
Transport/Additional information:			
DOT Marine Pollutant (DOT):	No		
UN "Model Regulation":	UN1759, Corrosive solids, n.o.s. (4-Nitro-2-(trifluoromethyl)anisole), 8, II		
15 Regulatory information			
Given Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P333 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P303+P361+P333 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P303+P361+P333 If SWALLOWED: rinse cautiously with water for several minutes. Renove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product inset in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This profice trunst not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, meas Substance is not listed.			
Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information			
Employers should use this information only as a supplemen information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in con	nt to other information gathered by them, and should make independent judgement of suitability of this I safety of employees. This information is furnished without warranty, and any use of the product not in mbination with any other product or process, is the responsibility of the user.		
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Ro IMDG: International Maritime Code for Dangerous Goods	oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
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: Hazardrug: Materiale Unperfecting System (USA)	oute (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
WHMIS: Hazardous Waterials Indentification System (OSA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent			
vrvb: 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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