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Nevision da	Version 2
1 Identification Product identifier	
Product name: <u>4-Methoxy-2-(trifluoromethyl)aniline</u>	
Stock number: H31872 CAS Number: 53903-49-4 EC number: 682-062-4 Polovant identified uses of the substance or mixture and uses advised against	
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 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)	
GHS06 Skull and crossbones	
Acute Tox. 3 H311 Toxic in contact with skin.	
GHS08 Health hazard	
STOT RE 2 H373 May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: (Inhalation.	Oral,
GHS07	
Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. <b>Hazards not otherwise classified</b> No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06 GHS08	
Signal word Danger Hazard statements	
H302+H332 Harmful if swallowed or if inhaled.	
H311 Toxic in contact with skin. H315 Causes skin irritation.	
H319 Causes serious eye irritation. H373 May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inh	nalation
Precautionary statements	
P280 Wear protective gloves / protective clothing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P309 IF exposed or if you feel únwell: P310 Immediately call a POISON CENTER/doctor.	
P302+P352 IF ON SKIN: Wash with plenty of water. 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) (Hazardous Materials Identification System)	
HEALTH       I         PRE       I         FRE       I         REACTWITY       I         Physical Hazard = 1	
Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
w w. Not applicable.	USA

	(Contd. of page 1)
3 Composition/information on ingredients	(contai or page 1)
Chemical characterization: Substances	
CAS# Description: 53903-49-4 4-Methoxy-2-(trifluoromethyl)aniline Concentration: ≤100%	
Identification number(s): EC number: 682-062-4	
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.	
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
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	
Causes skin irritation. Harmful if swallowed.	
Toxic in contact with skin. Causes serious eye irritation. Harmful if inhaled.	
Harmful if inhaled. May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalation. 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:	
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen fluoride (HE)	
Advice for firefighters Protocol of the second seco	
Protective equipment: Wear self-contained respirator.	
Wear fully protective impervious suit.	
6 Accidental release measures	
<b>Personal precautions, protective equipment and emergency procedures</b> 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:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13.	
Ensure adequate ventilation. <b>Prevention of secondary hazards:</b> 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 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. <b>Protective Action Criteria for Chemicals</b>	
PAC-1: Substance is not listed. PAC-2: Substance is not listed.	
PAC-3: Substance is not listed.	
7 Handling and storage	
Handling Precautions for safe handling 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	
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:	
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: 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.	(Contd. on page 3)
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# Product name: 4-Methoxy-2-(trifluoromethyl)aniline

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Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

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 multi-purpose combination (US) or type ABEK (EN 14387) 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 such as NIOSH (USA) or CEN (EU). **Protection of hands:** Impendixed and approved under appropriate government standards such as NIOSH (USA) or CEN (EU).

Impervious gloves 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. **Eye protection:** Safety glasses with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing.

## 9 Physical and chemical properties

9 Physical and chemical properties	y Physical and chemical properties			
Information on basic physical and che General Information Appearance:				
Form:	Liquid			
Odor:	Characteristic			
Odor threshold:	Not determined.			
pH-value:	Not determined.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower:	Not determined			
Upper:	Not determined Not determined			
Vapor pressure:	Not determined Not determined			
Density:	Not determined Not determined			
Relative density	Not determined			
Vapor density	Not determined.			
Evaporation rate	Not determined.			
Solubility in / Miscibility with				
Water:	Not miscible or difficult to mix			
Partition coefficient (n-octanol/water):				
Viscosity:				
dynamic:	Not determined.			
kinematic:	Not determined.			
Other information	No further relevant information available.			

## 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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides 11 Toxicological information Information on toxicological effects Acute toxicity

	Hamful if inhaled.	L
	Harmful if swallowed.	I
	Toxic in contact with skin.	L
	Danger through skin absorption.	L
	LD/LC50 values that are relevant for classification: No data	L
	Skin irritation or corrosion: May cause irritation	L
	Eye irritation or corrosion: May cause irritation	L
	Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.	L
	Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	L
		L
L .	Reproductive toxicity: No effects known.	L
	Specific target organ system toxicity - repeated exposure:	L
	Specific target organ system toxicity - repeated exposure: May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.	L
	Specific target organ system toxicity - single exposure: No effects known.	L
	Aspiration hazard: No effects known.	L
	Subacute to chronic toxicity: No effects known.	L
	Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	L
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(Contd. on page 4)

	(Contd. of page 3)			
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 product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. 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 or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
14 Transport information				
UN-Number DOT, IMDG, IATA	UN2810			
UN proper shipping name DOT	Toxic, liquids, organic, n.o.s. (4-Methoxy-2-(trifluoromethyl)aniline)			
ĂĎŔ IMDG, IATA	2810 Toxic, liquids, organic, n.o.s. (4-Methoxy-2-(trifluoromethyl)aniline) TOXIC LIQUID, ORGANIC, N.O.S. (4-Methoxy-2-(trifluoromethyl)aniline)			
Transport hazard class(es)				
DOT				
Class Label ADR	6.1 Toxic substances 6.1			
Class Label IMDG, IATA	6.1 (T1) Toxic substances 6.1			
Class Label	6.1 Toxic substances 6.1			
Packing group DOT, ADR, IMDG, IATA				
DOT, ADR, IMDG, IATA Environmental hazards:	III Not applicable.			
Special precautions for user	Warning: Toxic substances			
EMS Number: Stowage Category Stowage Code	F-A,S-A A SW2 Clear of living quarters.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod				
Transport/Additional information: DOT				
DOT Quantity limitations	On passenger aircraft/rail: 60 L			
Marine Pollutant (DOT):	On cargo aircraft only: 220 L No			
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml			
UN "Model Regulation":	UN 2810 TOXIC, LIQUIDS, ORGANIC, N.O.S. (4-METHOXY-2- (TRIFLUOROMETHYL)ANILINE), 6.1, III			

# 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms



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USA

### Product name: 4-Methoxy-2-(trifluoromethyl)aniline

Hazard statementsH302+H332 Harmful if swallowed or if inhaled.H311Toxic in contact with skin.H315Causes skin irritation.H319Causes serious eye irritation.

H311 FORCH Contact with Skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H373 May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalation. **Precautionary statements** P090

- Precautionary statements

   P280
   Wear protective gloves / protective clothing.

   P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

   P309
   IF exposed or if you feel unwell:

   P310
   Immediately call a POISON CENTER/doctor.

   P302+P352
   IF ON SKIN: Wash with plenty of water.

## National regulations

National regulations This product is not listed 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 product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, call by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

*market and use must be observed.* Substance is not listed.

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 supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department

Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page. Abreviations and acronyms: ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Mairtime Code for Dangerous Goods 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: Warkplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern VPW: 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) Acute Tox. 3: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 2 Eye Imt. 24: Serious eye damage/eye irritation – Category 2A STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2