

Safety Data Sheet per OSHA HazCom 2012

Neviewed 01/03/24/	2000
1 Identification	
Product identifier	
Product name: 2-Fluoro-4-methoxyphenylacetonitrile	
Stock number: H30752 CAS Number:	
749934-29-0 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 H331 Toxic if inhaled.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Acute Tox. 4 H312 Harmful in contact with skin. Skin Irrit. 2 H315 Causes skin irritation.	
Eve Irrit. 2A H319 Causes serious eve 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	
GHS06	
Signal word Danger	
Hazard statements H302+H312 Harmful if swallowed or in contact with skin.	
H331 Toxic if inhaled. H315 Causes skin irritation.	
H319 Causes serious eve irritation.	
H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 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 tresh 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	
D2B - Toxic material causing other toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I FIRE I 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:	
CAS# Description: 749934-29-0 2-Fluoro-4-methoxyphenylacetonitrile	USA -
(Contd. on p	00/1

Product name: 2-Fluoro-4-methoxyphenylacetonitrile

(Contd of page 1)

	(Contd. of page 1)
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.	
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 form	
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 firm the following come he released:	
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Nitrogen oxides (NOx) Hydrogen fluoride (HF)	
Hydrogen cyanide (HCN) Advice for firefighters	
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: Absorb with liquid-binding material (sand diatomitic acid binders, universal binders, sawdust)	
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	
Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections	
See Section 7 for information on sate 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 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: 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 skin.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	
Protection of hands: 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.	
Penetration time of glove material (in minutes) Not determined	
Eve protection: Safety glasses Body protection: Protective work clothing.	USA

USA (Contd. on page 3)

		(Contd. of page 2)
9 Physical and chemical properties		
Information on basic physical and ch		
General Information Appearance:		
Form:	Liquid	
Color: Odor:	Pale yellow Not determined	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined	
Sublimation temperature / start:	Not determined	
Flash point:	Not determined	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not determined	
Density:	Not determined	
Relative density Vapor density	Not determined. Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/water)	: Not determined.	
Viscosity: dynamic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
Possibility of hazardous reactions to Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride Hydrogen cyanide	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications. o dangerous reactions known t information available. nts	
11 Toxicological information		
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec Subacute to chronic toxicity: Nitriles may resemble cyanides in toxicit respiration, nausea, vomiting, weakness	kin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	n, shallow
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable.	her relevant information available. elevant information available. rmation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
vPvB: Not applicable.	ant information available	

Other adverse effects No further relevant information available.

Product name: 2-Fluoro-4-methoxyphenylacetonitrile

(Contd. of page 3)

13 Disposal considerations Waste treatment methods **Recommendation** Consult state, local or national regulations to ensure proper disposal. Recommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, IMDG, IATA UN3276 UN proper shipping name DOT Nitriles, liquid, toxic, n.o.s. (2-Fluoro-4-methoxyphenylacetonitrile) NITRILES, LIQUID, TOXIC, N.O.S. (2-Fluoro-4-methoxyphenylacetonitrile) ĨMDG, IATA Transport hazard class(es) DOT Class 1 Toxic substances. Label 6. 6.1 (T1) Toxic substances 6.1 Class Label IMDG, IATA Class 6.1 Toxic substances Label 6.1 Packing group DOT, IMDG, IATA 111 Environmental hazards: Not applicable. Special precautions for user Warning: Toxic substances EMS Number: F-A.S-Ă 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": UN3276, Nitriles, liquid, toxic, n.o.s. (2-Fluoro-4-methoxyphenylacetonitrile), 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 R GHS06 Signal word Danger Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. H315 Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. H319 H335 H335 May cause respiratory initiation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALD: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up P405 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose of contents/container in accordance with local/regional/national/international 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. 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, sende Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only 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. 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. USA

(Contd. on page 5)

Product name: 2-Fluoro-4-methoxyphenylacetonitrile

(Contd. of page 4)

USA

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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:
RiD: Rejelement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritume Code for Dangerous Goods
DOT: US Department of Transport Association
(ICAO)
IADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritume Code for Dangerous Goods
DOT: US Department of Transport Association
(ICAO)
IADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritume Code for Dangerous Goods
DOT: US Department of Transport Association
(IATA: International Air Transport Association
(IASA)
(ICAS)
IMDR: Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
USA)
WHMIS: Workplace Hazardous Materials Information (USA)
IMP: National Coving Program (USA)
IAR: Accord Erence of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IMP: National Toxicology Program (USA)
IAR: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)