

Safety Data Sheet per OSHA HazCom 2012

1 Identification

Product identifier Product name: 2-Methoxyethyl cyanoacetate

Product identifier
Product name: 2-Methoxyethyl cyanoacetate
Stock number: B22265, L13386 CAS Number:
10258-54-5
EC number: 233-597-3
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
Alia 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
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)
GHS07
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
H315 Causes skin irritation
H319 Causes serious eye irritation. H335 May cause respiratory irritation
H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements
P261 Avoid breatning dust/tume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.
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 fresh air and keep comfortable for breathing.
P405 Store locked UD.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification
D2B - Toxic material causing other toxic effects
$\overline{\mathbf{T}}$
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH \Box Health (acute effects) = 1
FRE 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: 10258-54-5 2-Methoxyethyl cyanoacetate
Identification number(s): EC number: 233-597-3
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. (Contd. on page 2)
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Product name: 2-Methoxyethyl cyanoacetate

Product name: 2-ivietnoxyetnyi cyar	IVAUELALE				
Seek immediate medical advice.	r several minutes under running water. Then consult a doctor	(Contd. of page 1)			
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 effect	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.				
5 Fire-fighting measures					
Extinguishing media Suitable extinguishing agents Carbor Special bazards arising from the sub-	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture				
If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide	llowing can be released:				
Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Advice for firefighters					
Protective equipment: Wear self-contained respirator.					
Wear fully protective impervious suit.					
6 Accidental release measures Personal precautions, protective equ	ipment and emergency procedures				
Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not al	low 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, diatomite, acid binders, universal binders, sawdust).					
Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections					
See Section 7 for information on safe has See Section 8 for information on person	andling al 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	e. 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					
8 Exposure controls/personal prote Additional information about design	of technical systems:				
Control parameters	designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.				
Addítional information: No data	quire monitoring at the workplace: Not required.				
Exposure controls Personal protective equipment General protective and hygienic mea	sures				
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.					
Wash hands before breaks and at the e Avoid contact with the eves and skin.	Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work.				
Breathing equipment: Use suitable res	Maintain an ergonomicálly 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					
Eye protection: Safety glasses Body protection: Protective work cloth	ing.				
9 Physical and chemical properties					
Information on basic physical and ch General Information Appearance:	emical properties				
Form: Color:	Liquid Colorless				
Odor: Odor threshold:	Not determined Not determined.				
pH-value: Change in condition	Not determined.				
Melting point/Melting range: Boiling point/Boiling range:	Not determined 119-120 °C (246-248 °F) (5 mmHg)				

(Contd. on page 3) USA

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Product name: 2-Methoxyethyl cyan	oacetate				
		(Contd. of page 2)			
Sublimation temperature / start:	Not determined				
Flash point:	> 110 °C (> 230 °F)				
Flammability (solid, gaseous) Ignition temperature:	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:	Not determined				
Vapor pressure: Density at 20 °C (68 °F):	Not determined 1.13 g/cm³ (9.43 lbs/gal)				
Relative density	Not determined.				
Vapor density	Not determined.				
Evaporation rate Solubility in / Miscibility with	Not determined.				
Water:	Fully miscible				
Partition coefficient (n-octanol/water): Viscosity:	Not determined.				
dynamic:	Not determined.				
kinematic: Other information	Not determined.				
	No further relevant information available.				
10 Stability and reactivity					
Reactivity No information known.					
Chemical stability Stable under recomn	nended storage conditions.				
Thermal decomposition / conditions to	be avoided: Decomposition will not occur if used and stored according to specifications.				
Possibility of hazardous reactions No Conditions to avoid No further relevant	dangerous reactions known t information available				
Incompatible materials: Oxidizing agen	its				
Hazardous decomposition products: Carbon monoxide and carbon dioxide					
Nitrogen oxides					
Hydrogen cyanide					
11 Toxicological information					
Information on toxicological effects					
Acute toxicity: No effects known.					
LD/LC50 values that are relevant for c	lassification:				
Oral LD50 4300 mg/kg (rat)					
Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation.					
Sensitization: No sensitizing effects kno	Sensitization: No sensitizing effects known.				
Germ cell mutagenicity: No effects kno	own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	I			
Reproductive toxicity: No effects know	in.	1			
 Specific target organ system toxicity - 	- repeated exposure: No effects known.	1			
Aspiration hazard: No effects known.	- single exposure: May cause respiratory irritation.	1			
Subacute to chronic toxicity:	al Substances (RTECS) reports the following effects in laboratory animals:	1			
The Registry of Toxic Effects of Chemica Behavioral - somnolence (general depres	al Substances (RTECS) reports the following effects in laboratory animals:	I			
Behavioral - changes in motor activity (sp	pecific assay).	I			
Subacute to chronic toxicity:	• • • •	shallow			
respiration, nausea, vomiting, weakness	ty. Exposure to nitriles may cause increased salivation, flushing of the face, eye and respiratory tract irritation, b, headache and diarrhea. Jaundice, anemia, and leucocytosis has been reported in some cases. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	Shanow			
Additional toxicological information: 7	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 info	ormation available.				
Persistence and degradability No furth Bioaccumulative potential No further re	her relevant information available.				
Mobility in soil No further relevant inforr	mation available.				
Additional ecological information:					
General notes: Do not allow material to be released to th	he environment without proper governmental permits.				
Do not allow undiluted product or large q	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 releva.	ant information quailabla				
Uner auverse enects no farmer reisva					
13 Disposal considerations					
Waste treatment methods	et al la construction de la constru				
Recommendation Consult state, local of Uncleaned packagings:	or national regulations to ensure proper disposal.				
Recommendation: Disposal must be ma Recommended cleansing agent: Water	ade according to official regulations.	I			
Recommended cleansing agent: wate	r, if necessary with cleansing agents.				
14 Transport information					
Not a hazardous material for transportation		(Contd on nade 4)			
L		(Contd. on page 4) USA			

Product name: 2-Methoxyethyl cyanoacetate (Contd. of page 3) UN-Number DOT, IMDG, IATA None UN proper shipping name DOT, IMDG, IATA None Transport hazard class(es) DOT, ADR, IMDG, IATA Class None Packing group DOT, IMDG, IATA None Environmental hazards: Not applicable Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Not dangerous according to the above specifications. DOT Marine Pollutant (DOT): No 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 ! GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation H335 May cause respiratory irritation. Precautionary statements Pecautorial y 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 fresh air and keep comfortable for breathing. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on 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, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. National regulations 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 an article is according to the REACH regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not liste 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 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 com Department issuing SDS: Global Marketing Department Date of preparation / last revision 1/24/2015 / -Abbreviations and acronyms: IMD6: International Maritime 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 Substances CAS: Chemical Abstratis Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal dose, 60 percent VPWB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA