

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier
Product name: Methyl cyclopropanecarboxylate
Stock number: B20853, L01978 CAS Number:
2868-37-3
EC number:
220-690-9 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
Tel: 800-343-0660
Fax: 800-322-4757 Email: tech@alfa.com
Linai, teorita activitation 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)
GHS02 Flame
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
GHS06 Skull and crossbones
Acute Tox. 3 H331 Toxic if inhaled.
CI GHS07
Acute Tox. 4 H302 Harmful if swallowed.
Eye Irrit. 2A H319 Causes serious eye irritation. Hazards not otherwise classified No information known.
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
GHS02 GHS06
Signal word Danger
Hazard statements
H225 Highly flammable liquid and vapor. H302 Harmful if swallowed.
H302 Harmful if swallowed. H331 Toxic if inhaled.
H319 Causes serious eye irritation.
Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/sprav.
P261 Avoid breathing 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.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification
B2 - Flammable liquid
D2B - Toxic material causing other toxic effects
Classification system
HMIS ratings (scale 0-4)
(Hazardouš Materials Identification System)
HEALTH 2 Health (acute effects) = 2
FIRE I Flammability = 3 (REACTIVITY Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
2 Composition/information on ingradiants
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description:
2868-37-3 Methyl cyclopropanecarboxylate
(Contd. on page 2, USA -

Product name: Methyl cyclopropanecarboxylate

Identification number(s): EC number: 220-690-9

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 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

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 Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up: Keep away from ignition sources. 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.

Prevention of secondary hazards: Keep away from ignition sources. 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 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: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away.

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

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. 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 Eye protection: Safety glasses

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(Contd. of page 2)

Body protection: Protective work clothing. (Contd. of page 2			
9 Physical and chemical properties			
Information on basic physical and ch General Information Appearance: Form:	emical properties		
Color: Odor: Odor threshold:	Colorless Not determined Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 118-119 °C (244-246 °F) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	22 °C (72 °F) Not determined. 435 °C (815 °F) Not determined Not determined.		
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.		
Explosion limits: Lower: Upper: Vapor pressure at 20 °C (68 °F): Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with	0.9 Vol % 12.5 Vol % 23 hPa (17 mm Hg) 0.983 g/cm³ (8.203 lbs/gal) Not determined. Not determined. Not determined. Not determined.		
Water: Partition coefficient (n-octanol/water) Viscosity:	Not miscible or difficult to mix : Not determined.		
dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.		
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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide 11 Toxicological information			
Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful if swallowed.			
LD/LC50 values that are relevant for classification: Oral LD50 1500 mg/kg (rat) Inhalative LC50/4H 8000 mg/m3/4H (rat) Irritation of skin mild unknown mg (rabbit) Irritation of eyes moderate unknown mg (rabbit)			
Skin irritation or corrosion: Causes mild irritant effect. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.			
Subacute to Chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Cardiac - changes in heart weight. Liver - changes in liver weight. Kidney, Ureter, Bladder - changes in bladder weight. Additional toxicological information: 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 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 ret 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 undiluted product or large 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.			

vPvB: Not applicable.

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roduct name: Methyl cyclopropanecarboxylate	
Other adverse effects No further relevant information available.	(Contd. of page 3)
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure pro Uncleaned packagings: Recommendation: Disposal must be made according to official regulation	
14 Transport information	
UN-Number DOT, IMDG, IATA	UN3272
UN proper shipping name DOT IMDG, IATA	Esters, n.o.s. (Methyl cyclopropanecarboxylate) ESTERS, N.O.S. (Methyl cyclopropanecarboxylate)
Transport hazard class(es) DOT	
Class Label Class Label IMDG, IATA	3 Flammable liquids. 3 3 (F1) Flammable liquids 3
Class Label	3 Flammable liquids.
Packing group DOT, IMDG, IATA	1
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
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":	UN3272, Esters, n.o.s. (Methyl cyclopropanecarboxylate), 3, II
IS Regulatory information Safety, health and environmental regulations/legislation specific for the GHS label elements The product is classified and labeled in accordance w Hazard pictograms GHS02 GHS06	he substance or mixture with 29 CFR 1910 (OSHA HCS)
Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. H302 Harmful if swallowed. H317 Toxic if inhaled. H319 Causes serious eye irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminate P305+P351+P338 IF IN EYES: Rinse cautiously with water for several min P405 Store locked up. P501 Dispose of contents/container in accordance with local/ National regulations All components of this product are listed in the U.S. Environmental Protect. All components of this product are listed on the Canadian Non-Domestic S SARA Section 313 (specific toxic chemical listings) Substance is not list California Proposition 65 Prop 65 - Chemicals known to cause cancer 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. 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. 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 and probletive regulations	ad clothing. Rinse skin with water/shower. hutes. Remove contact lenses, if present and easy to do. Continue rinsing. fregional/national/international regulations. ion Agency Toxic Substances Control Act Chemical substance Inventory. hubstances List (NDSL). sted. f individuals. gulations (EC) No. 1907/2006. Substance is not listed.

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Product name: Methyl cyclopropanecarboxylate

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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 11/23/2015 /
Abbreviations and acronyms:

RID: Réglement 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 Civil Aviation Organization" (IATA)
ICAO: The retinational Civil Aviation Organization
ICAO: Thermational Maritime Code for Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
IATA: International Air Transp

USA