



# 1 Identification Product identifier Product name: Dimethyl itaconate Stock number: L12652 **CAS Number:** 617-52-7 EC number: 210-519-6 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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known. I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 1 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: 617-52-7 Dimethyl itaconate Identification númber(s): EC number: 210-519-6 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:

**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: Pick up mechanically. Prevention of secondary hazards: Keep away from ignition sources.

(Contd. on page 2)

# Product name: Dimethyl itaconate

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. 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

The usual 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.

Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:

Impervious gloves 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 clothing.

### 9 Physical and chemical properties

9 Physical and chemical properties	
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Crystalline White Not determined Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	33-39 °C (91-102 °F) 207-208 °C (405-406 °F) Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	100 °C (212 °F) Not determined Not determined Not determined Not determined Not determined.
Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Product does not present an explosion hazard. Not determined Not determined Not applicable. 1.124 g/cm <sup>3</sup> (9.38 lbs/gal) Not determined. Not applicable. Not determined Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.

### 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. **Conditions to avoid** No further relevant information available. **Incompatible materials:** Oxidizing agents

(Contd. on page 3)

(Contd. of page 1)

Hazardous decomposition products: Carbon monoide and carbon dioxie       (Contl. of page 2         11 Toxicological Information Information conclusting effects ILM.CO values that an intervent of a carbon diagonal information Sensitization: No separate intervent General Concentration Concentratin Concentration Concentration Concentration Concentration Concent	Product name: DIMetnyi Itaconate			
Information on toxicological effects Address of the original proceedings of the second proceeding of the second procession of the second processi	Hazardous decomposition products: Carbon monoxide and carbon	dioxide	(Contd. of page 2)	
Toticity Aquatic toxicity: No further relevant information available.           Aquatic toxicity: No further relevant information available.           Bestactment and toxicity: No further relevant information available.           Additional secolity: No further relevant information available.           Mobility: In a subject of the environment without proper governmental permits. Do not allow unditude product or large quantities to reach ground water, water course or sewage system.           Additional secolity: Additional formation:           Do not allow unditude product or large quantities to reach ground water, water course or sewage system.           Results of PFT and YVPB assessment PFT. Not applicable.           Other adverse effects No. further relevant information available.           13 Disposal considerations           Waste treatment methods Recommendation: Clossili state, local or national regulations to ensure proper disposal.           Recommendation: Clossili state, local or national regulations.           14 Transport information Clossili state, local or national regulations.           14 Transport information Clossili state, local or national regulations.           10 None Off, MDG, IATA           11 Transport information Clossili state, local or national regulations.           12 Transport information Clossili precautions for user           13 Transport information Clossili precautions for user           14 Transport information Clossili precautions for user           15 Regulatory in	Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.	ects known. s known.		
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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 Not a heardown material for transportation.           UM-Aumber DOT, IMDG, IATA           None           UM proper shipping name DOT, IMDG, IATA           None           DOT, IMDG, IATA           DOT, IMDG, IATA           None           Packing group           DOT, IMDG, IATA           None           Packing group           DOT, IMDG, IATA           None           Packing group           None           DOT, IMDG, IATA           None           Transport in bulk according to Annex II of MARPOL7378 and the IBC Code Not applicable.           Transport/Additional information:           No           Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable           Nationer equilations	Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information availal 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 Do not allow undiluted product or large quantities to reach ground wate Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	r governmental permits.		
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 Nota Integration material for transportation.           UN-Aumber DOT, IMDS, LATA           None           UN proper shipping name DOT, IMDS, LATA           DOT, IMDS, LATA           None           Packing group           DOT, IMDS, LATA           None           Packing group           DOT, IMDS, LATA           None           Packing group           None           DOT, IMDS, LATA           None           Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.           Transport/Additional information:           Not           Safety, health and environmental regulations/legislation specific for the substance or mixture           GHS tabel elements Not applicable	13 Disposal considerations			
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Unemical salety assessment: A Unemical Salety Assessment has not been carried out.				

# Product name: Dimethyl itaconate

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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 / 
Abbrevitions and accomyms:

RD: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAC: International Aritime Code for Dangerous Goods
DOT: US Department of Transportation
ITAL: International Aritime Code for Dangerous Goods
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (Canada)
LC50: Lethal concentration, 50 percent
USD 20: Very Persistent and very Bioaccumulative
ACGIH: American Chernical Hygienists (USA)
(SAA: Occupational Safety and Health Administration (USA)
NTP: National Safety and Health Administration (USA)
NTP: National Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
NTP: National Toxicology Program (USA)

USA