

SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

<u>Product Name:</u> Diethyl malonate 99%

<u>Product Code:</u> D23520

Supplier: Pfaltz & Bauer, Inc.

172 E. Aurora Street

Waterbury, CT 06708 USA

<u>Phone:</u> 203-574-0075

FAX: 203-574-3181

Emergency Phone: INFOTRAC, US: 1-800-535-5053

INFOTRAC, INTERNATIONAL: +1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

<u>Statement of Hazard:</u> Irritant, Respiratory irritant

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system.

May be harmful by ingestion, skin absorption and inhalation.

Chronic Health Hazard: Not Available

HMIS Rating: H: 2 F: 2 P: 0

NFPA Rating: H: 2 F: 2 R: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Acute toxicity, dermal (Category 4), H312 Acute toxicity, inhalation (Category 4), H332

Acute toxicity, oral (Category 4), H302

Serious eye damage/eye irritation (Category 2A), H319

Skin corrosion/irritation (Category 2), H315

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

Pictogram:



Signal Word: Warning

Hazard Statement(s): H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Precautionary Statement(s): P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician

IF you feel unwell.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in

a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name: Diethyl malonate 99%

<u>Synonyms:</u> Ethyl malonate; DEM; Malonic ester; Malonic acid diethyl ester;

Carbethoxyacetic ester; Dicarbethoxymethane; Diethyl propanedioate

CAS Number: 105-53-3

MDL Number: MFCD00009195

EINECS Number: 203-305-9

Beilstein Registry Number: 774687

Molecular Formula: CH₂(COOC₂H₅)₂

Molecular Weight: 160.17

Content: As specified in product name.

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate

eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical

attention.

<u>Ingestion:</u> Do not induce vomiting. Seek medical attention.

Inhalation: Move to a fresh air environment. Contact a physician if breathing

becomes difficult.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point (°C): 90

Explosion Limits: Not Available

<u>Auto Ignition</u>

Not Available

Temperature (°C):

Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water

spray

<u>Protective Equipment:</u> Wear self-contained respirator and fully protective impervious suit.

<u>Specific Hazards:</u> May emit hazardous fumes under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves,

and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and

contact proper authorities if needed. Keep unprotected persons away.

<u>Environmental Protection:</u> Keep spills out of sewers and bodies of water. Dike and contain the spill

with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash

spill site after material pickup is complete.

SECTION 7: HANDLING and STORAGE

Handling and Storage: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and

eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources

away.

Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities: Not Available

Storage Temperature (°C): 15 to 30

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use product in a well ventilated area or under a fume hood. Use proper

lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Eve Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make

sure that there is an eyewash station in your vicinity.

<u>Skin Protection:</u> Wear impervious gloves and protective clothing.

Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or

if irritation or other symptoms are experienced.

<u>Exposure Limits:</u> <u>Country</u> <u>Source</u> <u>Type</u> <u>Value</u>

USA ACGIH TWA Not Available
USA OSHA STEL Not Available
USA OSHA PEL Not Available

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

<u>Appearance:</u> Colorless liquid

Odor: Not Available

Odor Threshold: Not Available

Flash Point (°C): 90

Auto Ignition

Temperature (°C):

Not Available

<u>UEL % by Volume:</u> Not Available

LEL % by Volume: Not Available

Melting Point ($^{\circ}$ C): -51-(-50)

Boiling Point (°C): 199

<u>Evaporation Rate:</u> Not Available

pH Value: Not Available

Density (g/cm^3) : 1.055

Refractive Index (n²⁰D): 1.413

Viscosity: Not Available

Solubility in Water: Not Available

Solubility in Other: Not Available

<u>Vapor Pressure (mmHg):</u> Not Available

<u>Vapor Density (Air=1):</u> Not Available

SECTION 10: STABILITY and REACTIVITY

Stability: Stable under normal temperatures and pressures.

Incompatibility: Oxidizing agents

Reactivity: Product may react with incompatible materials to release other

hazardous substances.

Conditions to Avoid: Heat, flame, sparks, other ignition sources.

Hazardous Carbon oxides

Decomposition Products:

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Reference: 000700000

Target Organs: Not Available

Toxicity Data: Oral Rat LD₅₀ mg/kg: 6400.00

Dermal Rabbit LD₅₀ mg/kg: 16880.00

<u>Carcinogenicity:</u> National Toxicology Program (NTP) listed:

Not Available

International Agency for Research on Cancer (IARC) listed: Not

Available

<u>Potential Symptoms:</u> Not Available

SECTION 12: ECOLOGICAL INFORMATION

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

Not D.O.T.-Regulated **DOT Shipping Name:**

IMDG Shipping Name: Not Regulated

Marine Pollutant: Nο

IATA Shipping Name: Not Regulated

SECTION 15: REGULATORY INFORMATION

United States

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No

Superfund Amendments and Reauthorization Act (SARA 313) listed: No

European Union

European Inventory of Existing Chemical Substances (EINECS): 203-305-9

Canada

Canadian Domestic Substances List (DSL) listed: Yes

Canadian Non-Domestic Substances List (NDSL) listed: No

SECTION 16: OTHER INFORMATION

Date Prepared: 1/4/2022

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.