

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/12/2015 Version: 1.0

SECTION 1: Identification Identification 1.1. Product form : Substance Substance name Dimethyl maleate CAS-No. : 624-48-6 Product code : (US) W1303 Formula C6H8O4 2-Butenedioic acid (2Z)-, dimethyl ester / 2-Butenedioic acid (Z)-, dimethyl ester / 2-Butenedioic Synonyms acid, (Z)-, dimethyl ester / 2-Butenedioic acid, dimethyl ester, (Z)- / Maleate, dimethyl / Maleic acid, dimethyl ester / 2-Butenedioic acid (2Z)-, 1,4-dimethyl ester / DIMETHYL MALEATE

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651 info@synerzine.com - www.synerzine.com

Emergency telephone number 1.4.

Emergency number

: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US

SECTIC	IN 2: Hazard(s) identification
2.1.	Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Skin corrosion/irritation Category 1C	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Specific target organ toxicity (single exposure) Category 3	Н335	May cause respiratory irritation
Hazardous to the aquatic environment - Acute Hazard Category 2	H401	Toxic to aquatic life

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Signal word (GHS-US) Hazard statements (GHS-US)

Hazard pictograms (GHS-US)

:	Danger
:	H302 - Harmful if swallowed
	H314 - Causes severe skin burns and eye damage
	H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage H335 - May cause respiratory irritation

H401 - Toxic to aquatic life

Precautionary statements (GHS-US)

- : P260 Do not breathe fume, gas, mist, spray, vapors. P261 - Avoid breathing fume, gas, mist, spray, vapors.
- P264 Wash hands, forearms and face thoroughly after handling.

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- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace
- P273 Avoid release to the environment.
- P280 Wear eye protection, face protection, protective clothing, protective gloves.
- P301+P312 If swallowed: Call a doctor, a POISON CENTER if you feel unwell
- P301+P330+P331 If swallowed: rinse mouth. Do NOT induce vomiting
- P302+P352 If on skin: Wash with plenty of water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep 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
- P310 Immediately call a doctor, a POISON CENTER
- P312 Call a doctor, a POISON CENTER if you feel unwell
- P321 Specific treatment (see supplemental first aid instructions on this label)
- P330 Rinse mouth.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P363 Wash contaminated clothing before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	GHS-US classification
Dimethyl maleate (Main constituent)	(CAS-No.) 624-48-6	96 - 100	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable SECTION 4: First-aid measures Description of first aid measures 4.1. First-aid measures general : Call a physician immediately. First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a First-aid measures after skin contact physician immediately. First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately. 4.2. Most important symptoms and effects (acute and delayed) Symptoms/effects after inhalation : May cause respiratory irritation. Symptoms/effects after skin contact Burns. May cause an allergic skin reaction. Symptoms/effects after eye contact Serious damage to eyes. Symptoms/effects after ingestion Burns. 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measu	ures
5.1. Suitable (and unsuitable) ex	ttinguishing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from	n the chemical
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipmen	nt and precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release	measures
6.1. Personal precautions, prote	ctive equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe fume, gas, mist, spray, vapors.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for co	ontainment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and stora	ge
7.1. Precautions for safe handlin	g
Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe fume, gas, mist, spray, vapors. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
SECTION 8: Exposure controls/	increased protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering cor	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measu	rres/Personal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
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Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical a	nd chemical properties	
Physical state	: Liquid	
Appearance	: Clear colorless to pale yellow liquid.	
Color	: colorless to pale yellow	
Odor	: characteristic	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: -19 °C	
Freezing point	: No data available	
Boiling point	: 200 - 207 °C	
Flash point	: 95 °C (open cup)	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: 0.28 hPa (at 20 °C)	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 1.148 - 1.152 g/cm ³ (at 20 °C)	
Solubility	: Water: 80 g/l (at 25 °C)	
Log Pow	: 0.22	
Auto-ignition temperature	: 390 °C (at 1013 hPa)	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information 11.1. information on toxicological effects Acute toxicity is Not classified Dimethyl maleate (624-48-6) LD50 doral rat 1410 mg/kg LD50 toral rat 530 µ/kg ATE US (oral) 1410 mg/kg body weight Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation : Causes severe skin burns and eye damage. Respiratory or skin sensitization : May cause an allergic skin reaction. Germ cell mutagenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity – single exposure : May cause respiratory irritation. Specific target organ toxicity – repeated exposure : Not classified Aspiration huzard : Not classified Symptoms/effects after inhalation : May cause respiratory irritation. Symptoms/effects after inhalation : May cause an allergic skin reaction. Symptoms/effects after inhalation : Burns. May cause an allergic skin reaction. Symptoms/effects after inhalation : Burns. May cause an allergic skin reaction. Symptoms/effects after inhalation : Burns. Stocogical information<	according to Federal Register / Vol. 77, No. 58 / Monday, Ma	arch 26, 2012 / Rules and Regulations
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12.5. Other adverse effects	12.4. Mobility in soil	
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No additional information available	12.5. Other adverse effects	
	No additional information available	

13.1.	Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

SECTION 13: Disposal considerations

Department of Transportation (DOT)

Transport document description UN-No.(DOT)	 UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III UN3265
Proper Shipping Name (DOT)	: Corrosive liquid, acidic, organic, n.o.s.
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: III - Minor Danger

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Hazard labels (DOT)	: 8 - Corrosive
	CORROSIVE
	8
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Transport document description (IMDG)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, III
UN-No. (IMDG)	: 3265
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5L
Air transport	
Transport document description (IATA)	: UN 3265 Corrosive liquid, acidic, organic, n.o.s., 8, III
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory informati	on
15.1. US Federal regulations	

Dimethyl maleate (624-48-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.2. International regulations

CANADA

Dimethyl maleate (624-48-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Dimethyl maleate (624-48-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Dimethyl maleate (624-48-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

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H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H401	Toxic to aquatic life
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO' react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: C
	C - Safety glasses, Gloves, Synthetic apron

Synerzine US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product