

# PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name:	Dimethyl fumarate			
Product Catalogue Number:	h-310			
Band:	PharmSintez.Lab			
CAS-No:	624-49-7			

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

For research use only. Not intended for diagnostic or therapeutic use.

#### 1. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Dermal Category 4 - (H312)
Skin corrosion/irritation Category 2 - (H315)
Serious eye damage/eye irritation Category 2 - (H319)
Skin sensitization Category 1 - (H317)
Specific target organ toxicity (single exposure) Category 3 - (H335)

Classification according to 67/548/EEC Hazard symbols R-code(s)

 symbols
 T+ - Very toxic

 s)
 Repr. cat. 3;R62 - Repr. cat. 3;R63 - T+;R28 - Xn;R21 - Xi;R36/37/38 - Xi;R41 - R43

### 2.2. Label Elements

Contains Dimethyl fumarate Signal word Symbols/Pictograms

Hazard statements

#### Warning



H319 - Causes serious eye irritation H317 - May cause an allergic skin reaction H315 - Causes skin irritation H335 - May cause respiratory irritation H312 - Harmful in contact with skin

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Precautionary Statements - EU (§28, 1272/2008)

P322 - Specific measures (see Emergency Phone Number

on

this label)

P280 - Wear eye protection/ face protection

P321 - Specific treatment (see Emergency Phone Number

on this label)

2.3. Other Hazards

General Hazards Not applicable

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight 144.13 Formula C6H8O4

#### 3.1 Substances

Chemical Name	EC No	CAS No	Weight %	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dimethyl fumarate	Present	624-49-7	100	Xn;R21-48	Acute Tox. 4 (H312)
				Xi;R36/37/38- T+;R28 Repr.Cat.3;R62	Skin Irrit. 2 Eye Irrit. 2 Skin Señs. 1 STOT SE 3

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

### **Section 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

General advice Immediate medical attention is required. If symptoms persist, call a

physician.

Inhalation Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-

mouth resuscitation. Immediate medical attention is required. If not breathing, give artificial respiration. Artificial respiration and/or oxygen may be necessary. Call a physician. Move to fresh air in case of accidental inhalation of vapors. If

symptoms persist, call a physician.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and

plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with

soap and plenty of water.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact

lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. If symptoms

persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth

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to an unconscious person. Call a physician or poison control center

immediately. Clean mouth with water and drink afterwards plenty of water. Call

a physician.

Self-protection of the first aider

clothing.

Use personal protective equipment as required. Avoid contact with skin, eyes or

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

# 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

#### Section 5: FIRE FIGHTING MEASURES

# 5.1. Extinguishing media

Suitable Extinguishing Media

and the

Use extinguishing measures that are appropriate to local circumstances

surrounding environment.

# 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from

the chemical

In the event of fire and/or explosion do not breathe fumes May cause sensitization by inhalation and skin contact Thermal decomposition can lead to release of

irritating and toxic gases and vapors

Hazardous combustion

Wear self-contained breathing apparatus and protective suit. Wear self contained

Dazattoingxadesaratus for fire fighting if necessary. products

# 5.3. Advice for firefighters

Special protective equipment

for fire-fighters

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#### **Section 6: ACCIDENTAL RELEASE MEASURES**

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Keep people away from and

upwind of

spill/leak. Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment

sheet or

Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic

Methods for cleaning up

sheet or tarp

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal. Use personal protective equipment as required. Cover powder spill with plastic

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

#### Section 7: HANDLING AND STORAGE

## 7.1. Precautions for safe handling

Advice on safe handling

Do not

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse.

eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local

exhaust ventilation.

**General Hygiene Considerations** 

and

When using do not eat, drink or smoke. Regular cleaning of equipment, work area

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

reach of

Keep container tightly closed in a dry and well-ventilated place. Keep out of the

children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

#### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

Exposure Limits occupational

This product, as supplied, does not contain any hazardous materials with

exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

Predicted No Effect Concentration (PNEC) No information available No information available.

8.2. Exposure controls

Engineering Controls Showers
Evewash

Eyewash stations

Ventilation systems

Eye/face protection

Tight sealing safety goggles. Face protection shield.

Skin and Body Protection

Suitable protective clothing. Gloves made of plastic or rubber. Suitable protective

clothing.

Apron.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Environmental exposure controls No information available.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Solid

Appearance crystalline powder
Odor No information available

<u>Property</u> <u>Values</u>

pH No information available

Melting point/freezing point 102 °C Boiling point 192 °C

Flash point No information available

Density 1.37 g/cm<sup>3</sup>

Evaporation rate
Upper flammability limits
Lower flammability limit
Vapor pressure

No information available
No information available
No information available

Vapor density No information available

Specific gravity
Water solubility
Solubility in other solvents
No information available
No information available
No information available

Partition coefficient 0.74

Autoignition temperature No information available Decomposition temperature No information available Kinematic viscosity No information

available

Explosive properties No information available Oxidizing properties No information available

### **Section 10: STABILITY AND REACTIVITY**

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10.1. Reactivity

Reactivity Not applicable

10.2. Chemical stability

Stability Stable under recommended storage conditions. Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

10.3. Possibility of hazardous reactions

Hazardous polymerization No information available. Possibility of Hazardous Reactions None under normal processing.

processing.

10.4. Conditions to avoid

Conditions to avoid Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous Decomposition Products Carbon oxides.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

**Acute toxicity** 

Product Information Product does not present an acute toxicity hazard based on known or supplied

information. Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 2,500.00 mg/kg ATEmix (dermal) 1,100.00 mg/kg

**Section 12: ECOLOGICAL INFORMATION** 

12.1. Toxicity

Ecotoxicity May cause long lasting harmful effects to aquatic life.

Unknown aquatic toxicity 100% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

Other adverse effects No information available

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#### Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging

Do not reuse container.

Other Information

Waste codes should be assigned by the user based on the application for which the

product

was used.

#### Section 14: TRANSPORT INFORMATION

	RID / ADR Not regulated	IMDG Not	ICAO (air) / IATA Not regulated
14.1 UN/ID no	-	-	-
14.2 Proper shipping name	-	-	-
14.3 Hazard Class	-	-	-
Subsidiary hazard class / Labels	-	-	
14.4 Packing Group	-	-	-
14.5 Environmental Hazard	-	-	-
14.6 Special Provisions	-	-	-

#### Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### National Regulations

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

# **International Inventories**

# All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) South Korea (KECL): China (IECSC) ENCS (Japan): Philippines (PICCS)

Chemical	TSCA	DSL	NDSL	EINEC	ELINC	ENCS	IECSC	KECL	PICCS	AIC
Dimethyl	Χ	-	Х	Х	-	Χ	Χ	Χ	Χ	Χ
fumarate										

### 15.2. Chemical safety assessment

Chemical Safety Report No information available

# **Section 16: OTHER INFORMATION**

Full text of R-phrases referred to under sections 2 and 3

R63 - Possible risk of harm to the unborn child R62 - Possible risk of impaired fertility

R28 - Very toxic if swallowed R21 - Harmful in contact with skin

R48 - Danger of serious damage to health by prolonged

exposure

R41 - Risk of serious damage to eyes R43 - May cause sensitization by skin

contact

R36/37/38 - Irritating to eyes, respiratory system and skin

Full text of H-Statements referred to under sections 2 and 3

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation

No information available.

### Revision note

#### **Further information**

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See www.labphs.com for additional terms and conditions of sale.

### **Preparation Information**

PharmSintez.Lab

Product Safety – multiple Tel: +7 (495) 796-94-33

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