

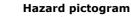
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		Fumari	c acid 95%			
Creati	ion date	21st September 2019				
Revisi	evision date 26th November 2024 Version 3.0					
SECT	ION 1: Identification	of the substance/mixture a	and of the company/undertaking			
1.1.	Product identifier	·	Fumaric acid 95%			
	Substance / mixture		substance			
	Chemical name		fumaric acid			
	CAS number		110-17-8			
	Index number		607-146-00-X			
	EC (EINECS) number		203-743-0			
	Registration number		01-2119485492-31-xxxx			
	Other substance nam	e				
	Fumaric acid					
1.2.	<b>Relevant identified</b>	uses of the substance or m	ixture and uses advised against			
1.2.	Relevant identified Substance's intende		ixture and uses advised against			
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#### Classification of the substance in accordance with Regulation (EC) No 1272/2008 The substance is classified as dangerous.

#### Eye Irrit. 2, H319 **Most serious adverse effects on human health and the environment** Causes serious eye irritation.

#### 2.2. Label elements





Signal word Warning Dangerous substance fumaric acid (Index: 607-146-00-X; CAS: 110-17-8)



#### SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Fumaric acid 95%Creation date21st September 2019Revision date26th November 2024Version3.0

#### Hazard statements H319

Causes serious eye irritation.

#### **Precautionary statements** P305+P351+P338

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

#### 2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components. Dust may form explosive mixture with air.

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

#### **Chemical characterization**

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	substance main component fumaric acid	>99	Eye Irrit. 2, H319	

Full text of all classifications and hazard statements is given in the section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

#### If inhaled Not expected.

If on skin Not expected. If in eyes Causes serious eye irritation.

If swallowed

#### Irritation, nausea.

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



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#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

#### 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

#### 6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

**6.4.** Reference to other sections See the Section 7, 8 and 13.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s) not available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

none

#### 8.2. Exposure controls

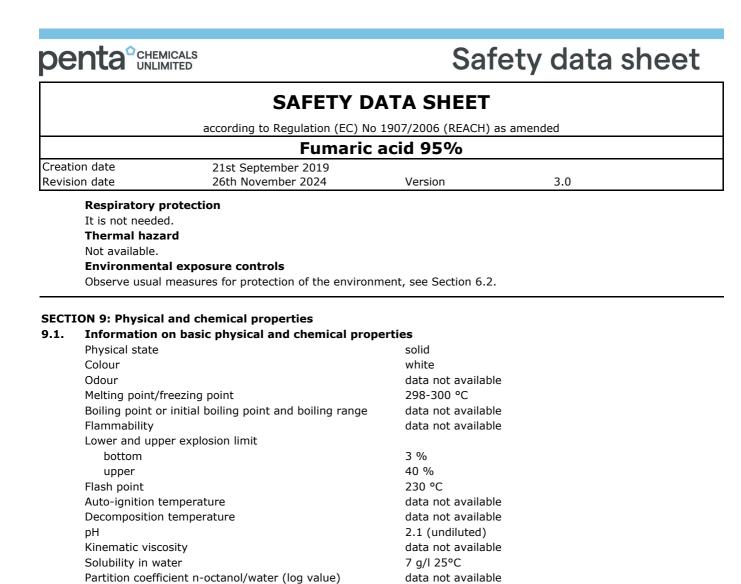
Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

#### Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). Contaminated skin should be washed thoroughly.



#### **SECTION 10: Stability and reactivity**

Relative vapour density

Particle characteristics

**Other information** not available

Density and/or relative density

Vapour pressure

9.2.

### 10.1. Reactivity The substance is non-flammable. 10.2. Chemical stability The product is stable under normal conditions. 10.3. Possibility of hazardous reactions Unknown. 10.4. Conditions to avoid The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

2.2 hPa at 165 °C

data not available

data not available data not available



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#### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the substance.

#### Acute toxicity

Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### **Reproductive toxicity**

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### **Aspiration hazard**

Based on available data the classification criteria are not met.

#### **11.2.** Information on other hazards

#### Endocrine disrupting properties

Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

#### SECTION 12: Ecological information

#### 12.1. Toxicity

No data available for the substance. Based on available data the classification criteria are not met.

#### **12.2.** Persistence and degradability No data available for the substance.

- 12.3. Bioaccumulative potential
- No data available for the substance.

12.4. Mobility in soil

Based on available data the classification criteria are not met. Does not contain any PMT or vPvM components.

#### 12.5. Results of PBT and vPvB assessment



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Based on available data the classification criteria are not met. Does not contain any PBT or vPvB components. Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Endocrine disrupting properties

Based on available data the classification criteria are not met. Does not contain any components that may cause endocrine disruption in the environment.

#### 12.7. Other adverse effects

Not available.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### **SECTION 14: Transport information**

- 14.1. UN number or ID number
  - not subject to transport regulations
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant

not relevant

- 14.5. Environmental hazards not relevant
- 14.6. Special precautions for user not available
- **14.7.** Maritime transport in bulk according to IMO instruments not relevant

#### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been performed for this substance.



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No chemical safety assessment has been performed for this substance.



# SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH) as amended Fumaric acid 95% Creation date 21st September 2019 Revision date 21st November 2024 Version 3.0

No chemical safety assessment has been performed for this substance.

#### **SECTION 16: Other information**

P305+P351+P338

#### A list of standard risk phrases used in the safety data sheet

H319 Causes serious eye irritation.

#### Guidelines for safe handling used in the safety data sheet

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

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and ac	ronyms used in the safety data sheet		
ADR	European agreement concerning the international carriage of dangerous goods by road		
BCF	Bioconcentration Factor		
CAS	Chemical Abstracts Service		
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures		
EC	Identification code for each substance listed in EINECS		
EINECS	European Inventory of Existing Commercial Chemical Substances		
EmS	Emergency plan		
EU	European Union		
EuPCS	European Product Categorisation System		
Eye Irrit.	Eye irritation		
IATA	International Air Transport Association		
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals		
ICAO	International Civil Aviation Organization		
IMDG	International Maritime Dangerous Goods		
IMO	International Maritime Organization		
INCI	International Nomenclature of Cosmetic Ingredients		
ISO	International Organization for Standardization		



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IUPAC	International Union	of Pure and Applied Ch	emistry		
log Kow	Octanol-water part	Octanol-water partition coefficient			
OEL	Occupational Expos	ure Limits			
PBT	Persistent, bioaccu	mulative and toxic			
PMT	Persistent, mobile a	and toxic			
ppm	Parts per million				
REACH	Registration, Evalu	ation, Authorisation and	Restriction of Chemicals		
RID	Agreement on the t	ransport of dangerous	goods by rail		
UN	Four-figure identific Model Regulations	Four-figure identification number of the substance or article taken from the UN Model Regulations			
UVCB	JVCB Substances of unknown or variable composition, complex reaction products or biological materials				
VOC	Volatile organic cor	Volatile organic compounds			
vPvB	Very persistent and	Very persistent and very bioaccumulative			
vPvM	Very persistent and	Very persistent and very mobile			
Training guide	elines				
Inform the ner	annal shout the recommanded way	a of use mandatom nr	stative equipment first aid and probibite		

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### **Recommended restrictions of use**

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from Tuesday, 11 October 2022. Changes were made in sections 1, 2, 11, 12, 13, 15 and 16.

#### More information

Classification procedure - calculation method.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.