

5-Sulfoisophthalic acid

Date of publication: 22/05/2006

Date of revision: 08/12/2022

Revision: 4

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name: 5-Sulfoisophthalic acid
Chemical name: 5-Sulfoisophthalic acid
CAS number: 22326-31-4
REACH registration number: 01-2119943481-39-0000
Other names or synonyms: 3,5-Dicarboxybenzenesulfonic acid
5-Sulfobenzene-1,3-dicarboxylic acid

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant identified uses**

Intermediate for chemical production.

1.2.2 Uses advised against

They are not known.

1.3 Details of the supplier of the safety data sheet

Synthesia, a.s.
Semtín 103
530 02 Pardubice
Czech Republic

Telephone: + 420 466 821 111
Fax: + 420 466 821 020
E-mail: synthesia@synthesia.eu

E-mail address of competent person: sds@synthesia.cz

1.4 Emergency telephone number**Manufacturer:**

Telephone: +420 466 824 402
Fax: +420 466 824 448

Poison Center:

Toxikologické informační středisko, Na Bojišti 1, 120 00 Praha 2, Czech Republic
Telephone: +420 224 919 293, +420 224 915 402

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008:**

Eye Irrit.2, H319
Skin Irrit.2, H315
STOT SE 3, H335

Full text of H-statements: see section 16.

The most important adverse physical, human health and environmental effects:

5-Sulfoisophthalic acid

Irritating to skin, eyes and respiratory tract.

2.2 Label elements



Signal word:

Warning

Hazard statements:

Causes serious eye irritation. (H319)

Causes skin irritation. (H315)

May cause respiratory irritation. (H335)

Precautionary statements:

Wear protective gloves/protective clothing/eye protection/face protection. (P280)

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

Continue rinsing. (P305+P351+P338)

IF ON SKIN: Wash with plenty of water and soap. (P302+P352)

2.3 Other hazards

Slightly corrosive.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name			
Index number CAS number EC number REACH registration number	Content [wt. %]	Classification according to Regulation (EC) No 1272/2008	Specific concentration limit, multiplying factor, acute toxicity estimate
5-Sulfoisophthalic acid			
- 22326-31-4 244-912-9 01-2119943481-39-0000	min. 85	Eye Irrit.2, H319 Skin Irrit.2, H315 STOT SE 3, H335	
Sulphuric acid 98%			
016-020-00-8 7664-93-9 231-639-5 01-2119458838-20-0004	max. 4	Skin Corr.1A, H314	Skin Corr. 1A, H314: C ≥ 15 % Eye Irrit. 2, H319: 5 % ≤ C < 15 % Skin Irrit. 2, H315: 5 % ≤ C < 15 %

The full text of H-phrases, hazard class and hazard category code is given in section 16.

3.2 Mixtures

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SECTION 4: First aid measures

5-Sulfoisophthalic acid

4.1 Description of first aid measures

In all cases keep the victim at physical and mental rest and warm. In all serious events and always in case of eye contact, get medical advice.

4.1.1 Following inhalation

Breake the exposure, transfer the victim to the fresh air, apply artificial respiration, if the victim is not breathing.

4.1.2 Following skin contact

Take off immediately contaminated clothing and flush affected area with plenty of water (preferably lukewarm) and soap.

4.1.3 Following eye contact

Rinse with plenty of water for at least 15 minutes. Do not attempt to neutralize! Move to the physician, while continue rinsing.

4.1.4 Following ingestion

Rinse the mouth with clean water, do not induce vomiting, give 1 - 2 broken tablets of charcoal in small water quantity to drink, get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects.

4.3 Indication of any immediate medical attention and special treatment needed

Information is not available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Water. Carbon dioxide. Dry chemical powder. Foam.

5.1.2 Unsuitable extinguishing media

They are not known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: carbon oxides, sulphur oxides.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus (EN 137) and clothing protective against chemicals.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

Ensure adequate ventilation.
Avoid contact with skin and eyes.

6.1.2 For emergency responders

Use suitable personal protective equipment.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up

Collect in the designated closed containers. Residue rinse with water.
Dispose according to the section 13.

5-Sulfoisophthalic acid**6.4 Reference to other sections**

Using of personal protective equipment - see section 8. Disposal - see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid contact with eyes and skin.
Do not breathe exhalations and dust.
Ensure adequate ventilation/exhaustion of the workplace.
Use personal protective equipment (see section 8).

Advice on general occupational hygiene:
Do not eat, drink or smoke during the work and observe the personal hygiene principles.
Wash with water and soap after work.

7.2 Conditions for safe storage, including any incompatibilities

Store in original tightly closed containers, in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

Isolated intermediate used under strictly controlled conditions.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Occupational exposure limit values:
not determined

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Local exhaust, ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

All used personal protective equipment must be in accordance with Regulation (EU) 2016/425.
All personal protective equipment must be kept in usable condition. Damaged or contaminated equipment must be immediately replaced.

Respiratory protection:	respirator
Hand protection:	protective rubber gloves
Eye/face protection:	protective chemical goggles or face shield

Body protection:	protective clothing
Thermal hazards:	not applicable

8.2.3 Environmental exposure controls

Avoid uncontrolled release of the substance/mixture to the environment.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state:	solid
Colour:	white to light grey
Odour:	practically odourless
Melting point/freezing point:	257 - 258 °C
Boiling point:	not available

5-Sulfoisophthalic acid

Flammability:	not available
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Flash point:	not available
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
pH:	not available
Kinematic viscosity:	not applicable
Solubility:	insoluble in cold methanol, ethanol, benzene, xylene
Solubility in water:	soluble
Partition coefficient n-octanol/water:	not available
Vapour pressure:	not applicable
Density or relative density:	not available
Relative vapour density:	not applicable
Particle characteristics:	not available

9.2 Other information

Information is not available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

Product is stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products are not known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity:**

LD₅₀, oral, rat (mg/kg): > 2 000 (Marhold)

LD₅₀, dermal, rat or rabbit (mg/kg): No data available.

LC₅₀, inhalation, rat (aerosol or particle) (mg/m³): No data available.

Skin corrosion/irritation:

Slightly irritating (rabbit).
(Marhold)

Serious eye damage/irritation:

5-Sulfoisophthalic acid

Moderately irritating (rabbit).
(Marhold)

Respiratory or skin sensitisation:
No data available.

Germ cell mutagenicity:
No data available.

Carcinogenicity:
No data available.

Reproductive toxicity:
No data available.

STOT-single exposure:
No data available.

STOT-repeated exposure:
No data available.

Aspiration hazard:
No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Following eye contact:
Irritating.

Following skin contact:
Irritating.

Following inhalation:
May cause respiratory irritation.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
Information is not available.

11.2.2 Other information
Information is not available.

SECTION 12: Ecological information**12.1 Toxicity**

12.1.1 Acute (short-term) aquatic toxicity
LC₅₀, 96 h, fish (mg/l): No data available.

EC₅₀, 48 h, crustacea (mg/l): No data available.

EC₅₀, 72 h, algae (mg/l): No data available.

12.1.2 Chronic (long-term) aquatic toxicity
No data available.

12.1.3 Toxicity for other organisms
No data available.

5-Sulfoisophthalic acid

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

Information is not available.

12.7 Other adverse effectsInformation is not available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****13.1.1 Product disposal**

Dissolve or mix the material with a combustible solvent and incinerate at a reserved and approved place in accordance with regulations.

13.1.2 Packaging disposal

Incinerate in incinerating plant for danger waste in accordance with local regulations.

SECTION 14: Transport information

Product is not classified as dangerous goods according to transport regulations.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1272/2008

Regulation (EC) No. 1907/2006

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other informationn**Indication of changes:**

Update according to Commission Regulation (EU) 2020/878.

List of abbreviations:

CAS - Chemical Abstracts Service

EC number - EINECS (European Inventory of Existing Commercial Chemical Substance), ELINCS (European List of Notified Chemical Substances) or NLP (No-Longer-Polymers)

LD50 - lethal dose, 50%

LC50 - lethal concentration, 50%

EC50 - effective concentration, 50%

IC50 - inhibitory concentration, 50%

PBT - persistent, bioaccumulative and toxic

5-Sulfoisophthalic acid

vPvB - very persistent and very bioaccumulative
BCF - bioconcentration factor
COD - chemical oxygen demand
BOD - biochemical oxygen demand
DNEL - derived no-effect level
PNEC - predicted no-effect concentration
NOAEL - no observed adverse effect level
NOAEC - no observed adverse effect concentration
NOEC - no observed effect concentration
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG - International Maritime Dangerous Goods
ICAO - International Civil Aviation Organisation
IATA - International Air Transport Association

Key literature references and sources for data:

Legislation, chemical databases and tables, tests.
Marhold J., Přehled průmyslové toxikologie: Organické látky, Avicenum, Prague, Czechoslovakia (1986)

Relevant information for classification of the product:

Product has been classified on the basis of its hazard properties data as found in specialised sources.

Relevant hazard statements:

Eye Irrit.2, H319 Serious eye damage/eye irritation, Category 2
Skin Irrit.2, H315 Skin corrosion/irritation, Category 2
STOT SE 3, H335 Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation
Skin Corr.1A, H314 Skin corrosion/irritation, Category 1A
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H314 Causes severe skin burns and eye damage.

Training advice:

In compliance with safety data sheet.

The above information corresponds to the current level of our knowledge and experience. The data merely describe the product with respect to safety and cannot be construed as guaranteed parameters. The user is responsible for handling in compliance with the existing laws and regulations.