

Section 1. Product and Company Identification

**Product Name** Sulfanilic acid  
**CAS Number** 121-57-3

**Parchem - fine & specialty chemicals**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**  
**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**  
**Skin irritation (Category 2):** H315  
**Eye irritation (Category 2A):** H319  
**Skin sensitization (Category 1):** H317  
**Acute aquatic toxicity (Category 3):** H402

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard statement(s)**

**H315:** Causes skin irritation.  
**H317:** May cause an allergic skin reaction.  
**H319:** Causes serious eye irritation.  
**H402:** Harmful to aquatic life.

**Precautionary statement(s)**

**P261:** Avoid breathing dust/fume/gas/mist/vapors/spray.  
**P264:** Wash skin thoroughly after handling.  
**P272:** Contaminated work clothing should not be allowed out of the workplace.  
**P273:** Avoid release to the environment.  
**P280:** Wear eye protection/ face protection.



- P280:** Wear protective gloves.  
**P302 + P352 IF ON SKIN:** Wash with plenty of soap and water.  
**P305 + P351 + P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P333 + P313 If skin irritation or rash occurs:** Get medical advice/ attention.  
**P337 + P313 If eye irritation persists:** Get medical advice/ attention.  
**P362:** Take off contaminated clothing and wash before reuse.  
**P501:** Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** None

Section 3. Composition / Information on Ingredients

<b>Common Name</b>	Sulfanilic acid
<b>Synonym(s)</b>	4-Aminobenzenesulfonic acid; Aniline-4-sulfonic acid
<b>Formula</b>	C <sub>6</sub> H <sub>7</sub> NO <sub>3</sub> S
<b>CAS Number</b>	121-57-3

COMPONENT	CAS NUMBER	CONCENTRATION
Sulfanilic acid	121-57-3	≤ 100%

Section 4. First Aid Measures

- General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.  
**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.  
**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  
**Indication of any immediate medical attention and special treatment needed:** No data available

Section 5. Firefighting Measures

**Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.



**Further information:** No data available

Section 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

**Storage class (TRGS 510):** Non-Combustible Solids

Section 8. Exposure Controls / Personal Protection

**Control parameters**

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

**Exposure controls**

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full contact**

**Material:** Nitrile rubber

**Minimum layer thickness:** 0.11 mm

**Break through time:** 480 min

**Splash contact**



**Material:** Nitrile rubber

**Minimum layer thickness:** 0.11 mm

**Break through time:** 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection:** Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### Section 9. Physical and Chemical Properties

**Form:** powder

**Color:** grey

**Odor:** odorless

**Odor Threshold:** No data available

**pH:** No data available

**Melting point/freezing point:** Melting point/range: > 300 °C (> 572 °F)

**Initial boiling point and boiling range:** ca.300 °C (572 °F) - OECD Test Guideline 103 -  
Decomposes below the boiling point.

**Flash point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** The product is not flammable. - Flammability (solids)

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Relative density:** 1.4862 g/cm<sup>3</sup> at 20 °C (68 °F)

**Water solubility:** 12.51 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - soluble

**Partition coefficient n-octanol/water:** log Pow: -2.297 at 25 °C (77 °F)

**Auto-ignition temperature:** 331 °C (628 °F)

**Decomposition temperature:** ca.300 °C (572 °F)

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing properties:** No data available

**Surface tension:** 72.3 mN/m at 20 °C (68 °F)



**Dissociation constant:** 3.35 at 20 °C (68 °F)

Section 10. Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** Strong oxidizing agents, Strong bases, Strong acids

**Hazardous decomposition products**

**Other decomposition products:** No data available

Section 11. Toxicological Information

**Acute toxicity**

**LD50:** Oral - Rat - 12,300 mg/kg

**Inhalation:** No data available

**LD50:** Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

**LD50:** Intravenous - Rat - 6,000 mg/kg

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation**

**Eyes:** Rabbit

**Result:** Irritating to eyes. (OECD Test Guideline 405)

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity**

**Hamster:** fibroblast

**Result:** negative

**Carcinogenicity**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** No data available



**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

**Additional Information**

**Repeated dose toxicity:** Rat - male and female - Oral - No observed adverse effect level - 1,000 mg/kg

**RTECS:** WP3895500 irritant effects

Section 12. Ecological Information

**Toxicity**

**Toxicity to fish:** static test LC50 - Danio rerio (zebra fish) - > 100 mg/l - 96 h (OECD Test Guideline 203)

**Toxicity to daphnia and other aquatic invertebrates:** static test EC50 - Daphnia magna (Water flea) - 23 mg/l - 48 h (OECD Test Guideline 202)

**Toxicity to algae:** static test EC50 - Desmodesmus subspicatus (green algae) - 97 mg/l - 72 h (OECD Test Guideline 201)

**Persistence and degradability**

**Biodegradability**

**Aerobic:** Exposure time 72 h

**Result:** 100 % - Readily biodegradable.

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. No data available

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

Section 15. Regulatory Information



**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:** Sulfanilic acid CAS-No. 121-57-3

**New Jersey Right To Know Components:** Sulfanilic acid CAS-No. 121-57-3

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**HMIS Rating**

**Health hazard:** 2

**Flammability:** 0

**Physical Hazard:** 0

**NFPA Rating**

**Health hazard:** 2

**Fire Hazard:** 0

**Reactivity Hazard:** 0

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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