

Section 1. Product and Company Identification

Product Name Phenyl Acetic Acid
CAS Number 103-82-2

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Section 2. Hazards Identification

Classification of the substance or mixture

GHS US Classification

Skin Irrit. 2 H315 - Causes skin irritation
STOT SE 3 H335 - May cause respiratory irritation
Aquatic Acute 2 H401 - Toxic to aquatic life

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statements (GHS US)

H315 - Causes skin irritation
H335 - May cause respiratory irritation
H401 - Toxic to aquatic life

Precautionary Statements (GHS US)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P321 - Specific treatment (see ... on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose in a safe manner in accordance with local/national regulations

Section 3. Composition / Information on Ingredients

Common Name Phenyl Acetic Acid
Formula $C_8H_8O_2$
CAS Number 103-82-2

COMPONENT	CAS NUMBER	CONCENTRATION
Phenyl Acetic Acid	103-82-2	100%

Section 4. First Aid Measures

Description of first-aid measures

General: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

Inhalation: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Skin Contact: Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

Eye Contact: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

Ingestion: Rinse mouth with water. Call Poison Information Center. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

Most important symptoms and effects, both acute and delayed

Inhalation: AFTER INHALATION OF DUST: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Headache.

Skin Contact: Tingling/irritation of the skin.

Eye Contact: Irritation of the eye tissue.

Ingestion: Nausea. Vomiting. Irritation of the gastric/intestinal mucosa.

Chronic symptoms: No effects known.

Indication of any immediate medical attention and special treatment needed: No additional information available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Water spray. Alcohol-resistant foam. Carbon dioxide. ABC powder.

Unsuitable extinguishing media: Container may slop over if solid jet (water/foam) is applied.

Special hazards arising from the substance or mixture

Fire hazard

DIRECT FIRE HAZARD: Combustible. In finely divided state: increased fire hazard.

INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard.

Explosion hazard

DIRECT EXPLOSION HAZARD: Fine dust is explosive with air.

INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark.

Reactivity: Upon combustion: CO and CO₂ are formed.

Advice for firefighters

Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighborhood close doors and windows.

Firefighting instructions: No specific fire-fighting instructions required.

Protection during firefighting: Heat/fire exposure: compressed air/oxygen apparatus.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel

Protective equipment: Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit.

Emergency procedures: Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes.

Measures in case of dust release: In case of dust production: keep upwind. Dust production: have neighborhood close doors and windows. Dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosion proof appliances/lighting equipment.

For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

For containment: Contain released substance, pump into suitable containers. Consult "Material-

handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Powdered form: no compressed air for pumping over spills.

Methods for cleaning up: Prevent dust cloud formation. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Reference to other sections: See Heading 8. Exposure controls and personal protection.

Section 7. Handling and Storage

Precautions for safe handling

Precautions for safe handling: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from naked flames/heat. Finely divided: spark- and explosion proof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

Hygiene measures: Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Keep container tightly closed.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

Heat and ignition sources: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Prohibitions on mixed storage: KEEP SUBSTANCE AWAY FROM: oxidizing agents. reducing agents. (strong) bases.

Storage area: Store in a dry area. Store at room temperature. Meet the legal requirements.

Special rules on packaging: SPECIAL REQUIREMENTS: closing. Correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.

Packaging materials: SUITABLE MATERIAL: polyethylene. paper with plastic inner lining. glass.

Section 8. Exposure Controls / Personal Protection

Control parameters: No additional information available

Exposure controls

Personal protective equipment: Avoid all unnecessary exposure.

Materials for protective clothing

Give Excellent Resistance: No data available.

Give Good Resistance: No data available.

Give Less Resistance: No data available.

Give Poor Resistance: No data available.

Hand protection: Gloves.

Eye protection: Face shield. In case of dust production: protective goggles.

Skin and body protection: Protective clothing. In case of dust production: head/neck protection.
In case of dust production: dustproof clothing.

Respiratory protection: Dust production: dust mask with filter type P2.

Other information: Do not eat, drink or smoke during use

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Solid

Appearance: Crystalline solid. Scales. Powder. Little spheres.

Color: White to light yellow

Odor: Stinking smell

Odor threshold: No data available

pH: 3.0 - 4.0, aqueous suspension

Melting point: 77°C

Freezing point: No data available

Boiling point: 265°C

Flash point: > 200°F (Closed cup)

Relative evaporation rate (butyl acetate = 1): No data available

Flammability (solid, gas): No data available

Explosive limits: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Vapor pressure: 0.004 mm Hg 25°C

Relative density: No data available

Relative vapor density at 20°C: No data available

Density: 1081 kg/m³

Molecular mass: 136.14 g/mol

Solubility: Moderately soluble in water. Soluble in ethanol. Soluble in ether. Soluble in carbondisulfide. Soluble in chlorinated hydrocarbons. Soluble in chloroform. Soluble in tetrachloromethane. Soluble in tetrachloroethene. Soluble in trichloroethene. Soluble in tetrachloroethane. Soluble in pentachloroethane. Soluble in acetone.

Water: 1.5 g/100ml (20°C)

Ethanol: soluble

Ether: soluble

Acetone: soluble

Log Pow: 1.41 (Experimental value)

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Other information

VOC content: 0%

Section 10. Stability and Reactivity

Reactivity: Upon combustion: CO and CO₂ are formed.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Not established.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Incompatible materials: Strong acids. Strong bases.

Hazardous decomposition products: Fume. Carbon monoxide. Carbon dioxide.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity: Not classified

Phenyl Acetic Acid (103-82-2)

LD50 oral rat: 2250 mg/kg (Rat; Literature study)

LD50 dermal rabbit: > 5000 mg/kg (Rabbit; Literature study)

ATE US (oral): 2250.000 mg/kg bodyweight

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Not classified

pH: 3.0 - 4.0, aqueous suspension

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified. Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Reproductive toxicity: Not classified. Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure): May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation: AFTER INHALATION OF DUST: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Headache.

Symptoms/injuries after skin contact: Tingling/irritation of the skin.



Symptoms/injuries after eye contact: Irritation of the eye tissue.

Symptoms/injuries after ingestion: Nausea. Vomiting. Irritation of the gastric/intestinal mucosa.

Chronic symptoms: No effects known.

Section 12. Ecological Information

Toxicity

Ecology - air: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).

Ecology - water: Mild water pollutant (surface water). Ground water pollutant. Maximum concentration in drinking water: 0.00010 mg/l (Directive 98/83/EC). Toxic to fishes. Harmful to invertebrates (Daphnia).

Phenyl Acetic Acid (103-82-2)

LC50 fish 1	13 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 1	11 mg/l (24 h; Daphnia magna; Static system)
LC50 fish 2	1.273 mg/l (96 h; Pisces)

Persistence and Degradability: Readily biodegradable in water. Biodegradable in the soil.

Bioaccumulative potential

Phenyl Acetic Acid (103-82-2)

BCF fish 1	3 (Pisces; Calculated value)
Log Pow	1.41 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Mobility in soil: No additional information available

Other adverse effects

Other information: Avoid release to the environment.

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

Department of Transportation (DOT)

In accordance with DOT: Not regulated for transport

TDG: No additional information available



Transport by sea

UN-No. (IMDG): UN3077

Proper Shipping Name (IMDG): Environmentally Hazardous Substance, Solid, N.O.S.

Class (IMDG): 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG): III - substances presenting low danger

Air Transport

UN-No. (IATA): UN3077

Proper Shipping Name (IATA): Environmentally hazardous substance, solid, N.O.S.

Class (IATA): 9 - Miscellaneous Dangerous Goods

Packing group (IATA): III - Minor Danger

Section 15. Regulatory Information

US Federal regulations

Phenyl Acetic Acid (103-82-2)

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

International regulations

CANADA: No additional information available

EU-Regulations: No additional information available

National regulations: No additional information available

US State regulations: No additional information available

HMIS Rating

Health: 1

Flammability: 1

Reactivity: 0

Personal Protection: B

NFPA Rating

Health: 2

Flammability: 1

Reactivity: 0

DEA Listing: This product is a DEA List 1 Chemical.

DEA Chemical Code: 8791

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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