

SILVER FERN CHEMICAL



Safety Data Sheet

Isophthalic Acid (PIA)

SECTION 1: IDENTIFICATION

Product Name: Isophthalic acid

CAS Number: 121-91-5

Chemical Name: Isophthalic acid

Synonyms: Benzene-1,3-dicarboxylic acid; *meta*-Phthalic acid; Purified Isophthalic Acid; PIA

Uses: Laboratory chemicals, Manufacture of substances

Company

Silver Fern Chemical, Inc.
2226 Queen Anne Avenue North
Suite #C
Seattle WA 98109, USA

Business Contact

Customer Service: 1-866-282-3384
info@silverfernchemical.com

24 Hour Emergency Contact

Infotrac 800-535-5053
Outside USA & Canada 352-323-3500

SECTION 2: HAZARD IDENTIFICATION

Warning

Hazard Statements/ Classification of mixture:
May form combustible dust concentrations in air



Precautionary Statements:

P210: Keep away from heat/sparks/open flames. - No smoking.
P243: Take precautionary measures against static discharge.
P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Content (W/W)	Ingredients
121-91-5	Isophthalic acid	<=100%

Formula: C₈H₆O₄

Molecular weight: 166.13 g/mol



SECTION 4: FIRST AID MEASURES

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration

In case of skin contact : Wash off with soap and plenty of water

In case of eye contact: Flush eyes with water as a precaution.

If swallowed : Never give anything by mouth to an unconscious person. Rinse mouth with water.

General advice: Move out of dangerous area.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling

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

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: No data available

Lower/Upper explosion limit: No data available

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

Special hazards arising from the substance or mixture: Carbon oxides

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

Special fire fighting procedurs: Minimize dust generation and accumulation

SECTION 6: ACCIDENTAL RELEASE MEASURES

Clean-up Procedures and Containment: Sweep up and shovel. Keep in suitable, closed containers for disposal

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Avoid breathing vapours, mist or gas.

Special Instructions: No special environmental precautions required.

SECTION 7: HANDLING AND STORAGE

Handling: 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.

Storage: 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 AND PERSONAL PROTECTION

Control parameters:
Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Isophthalic acid	121-91-5	TWA	10.000000 mg/m ³	USA. Workplace Environmental Exposure Levels (WEEL)
		TWA	5.000000 mg/m ³	USA. Workplace Environmental Exposure Levels (WEEL)

Appropriate engineering control: General industrial hygiene practice.

Personal Protective Equipment (PPE)

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

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.

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

General safety and hygiene measures: No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: Powder Color: beige
Odor	no data available
Odor Threshold	no data available
pH	no data available
Melting point/freezing Point	Melting point/range: 341 - 343 °C (646 - 649 °F) - lit.
Initial boiling point and boiling range	no data available

Flash point	no data available
Evaporation rate	Approx. 0 (n-BuAc=1)
Flammability (solid, gas)	Non-flammable
Upper/lower flammability or explosive limits	no data available
Vapor pressure	no data available
Vapor density	no data available
Water solubility	ca.0.12 g/l at 25 °C (77 °F) – soluble
Relative density:	1.53 g/cm ³ at 25 °C (77 °F)
Partition Coefficient: n-octanol/water	log Pow: 0.005 at 22 °C (72 °F)
Auto-ignition temperature	no data available
Decomposition temperature:	> 373 C (DTA)
Viscosity:	no data available
Explosive properties:	no data available

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid: no data available

Substances to avoid: Strong oxidizing agents, Strong bases

Hazardous reactions: no data available

Decomposition products: Carbon Monoxide. Carbon Dioxide.

Chemical stability: Stable under recommended storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity :

LD50 Oral - Rat - male and female - > 5,000 mg/kg
(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 11,370 mg/m³
(OECD Test Guideline 403)

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

No data available

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 2 s
(OECD Test Guideline 405)**Respiratory or skin sensitization :**

Maximisation Test (GPMT) - Guinea pig

Result: Does not cause skin sensitisation.
(OECD Test Guideline 406)**Germ cell mutagenicity :**

Hamster

ovary

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:**

RTECS: NT2007000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Stomach - Irregularities - Based on Human Evidence

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity :

Toxicity to fish

static test LC50 - *Leuciscus idus melanotus* - > 907 mg/l - 96 h
(OECD Test Guideline 203)Toxicity to daphnia and
Other aquatic invertebratesstatic test EC50 - *Daphnia magna* (Water flea) - > 952 mg/l - 48 h
(OECD Test Guideline 202)

Toxicity to algae

static test ErC50 - *Desmodesmus subspicatus* (*Scenedesmus subspicatus*) - > 1,000 mg/l - 96 h (OECD Test Guideline 201)

Toxicity to bacteria

Respiration inhibition EC50 - Sludge Treatment - 617.1 mg/l - 3 h
(OECD Test Guideline 209)

Biodegradability:

aerobic - Exposure time 14 d

Result: 85 % - Readily biodegradable
(OECD Test Guideline 301B)

Bioaccumulative no data available

Potential:

Other: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal of substance: Offer surplus and non-recyclable solutions to a licensed disposal company

Container disposal: Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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

Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Isophthalic acid CAS-No.121-91-5

New Jersey Right To Know Components

Isophthalic acid CAS-No. 121-91-5

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.

SECTION 16: OTHER INFORMATION

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Revision date: 01/14/2015

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

<end of document>