



**Silver Fern Chemical, Inc.  
Safety Data Sheet  
Purified Isophthalic Acid**

Revision Date: 12/29/2023

**1. Identification**

**1.1. Product identifier**

**Product Identity** Purified Isophthalic Acid  
**Alternate Names** PIA

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

**Intended use** Feed Materials, Intermediates

**1.3. Details of the supplier of the safety data sheet**

**Company Name** Silver Fern Chemical, Inc.  
2226 Queen Anne Avenue North  
Seattle, WA 98109 USA  
Customer Service: 1-866-282-3384 /  
info@silverfernchemical.com  
Website - www.silverfernchemical.com

**Emergency  
24 hour Emergency  
Telephone No.** Emergency telephone number  
Infotrac: 1-800-535-5053; Outside USA & Canada +1-  
352-323-3500

**2. Hazard(s) identification**

**2.1. Classification of the substance or mixture**

No applicable GHS categories.

**2.2. Label elements**

No applicable GHS categories.



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**[Prevention]**

No GHS prevention statements

**[Response]**

No GHS response statements

**[Storage]**

No GHS storage statements

**[Disposal]**

No GHS disposal statements

**3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Isophthalic acid CAS Number: 0000121-91-5	100	Not Classified	----

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

**Section 4. First aid measures**

**4.1. Description of first aid measures**

**General** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eyes** Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.



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

**Overview** No specific symptom data available.

Treat symptomatically. Check section 2.2 (GHS Label Elements) for further details.

### Section 5. Fire-fighting measures

#### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.  
Unsuitable extinguishing media: Do not use; water jet.

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

Pyrolytic product

Hazardous decomposition: Heating or fire can release toxic gas.

May cause toxic effects if inhaled.

#### 5.3. Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

**ERG Guide No.**

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### Section 6. Accidental release measures

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

Avoid dust formation. Put on appropriate personal protective equipment (see section 8). Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.



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

Sweep up or pick up.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Handle containers carefully to prevent damage and spillage.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]

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

Incompatible materials: Combustibles.

Store in a dry place. Store in a closed container.

Check section 2.2 (GHS Label Elements) for further details. - [Storage]

### 7.3. Specific end use(s)

No available information

## Section 8. Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
0000121-91-5	Isophthalic acid	OSHA	No Established Limit
ACGIH	No Established Limit		
NIOSH	No Established Limit		

### 8.2. Exposure controls

**Respiratory** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**Eyes** Protective safety glasses recommended



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<b>Skin</b>	Avoid skin contact. Protective gloves recommended. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
<b>Engineering Controls</b>	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
<b>Other Work Practices</b>	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details.

**Section 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	achromatic ~ white Solid
<b>Odor</b>	Unpleasant
<b>Odor threshold</b>	No available information
<b>pH</b>	3.36 ((0.013% solution)
<b>Melting point / freezing point</b>	341~348 °C
<b>Initial boiling point and boiling range</b>	No available information
<b>Flash Point</b>	No data available
<b>Evaporation rate (Ether = 1)</b>	No available information
<b>Flammability (solid, gas)</b>	No available information
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> No available information <b>Upper Explosive Limit:</b> No available information
<b>Vapor pressure (Pa)</b>	2.6 mm Hg (at 25°C)
<b>Vapor Density</b>	5.73 (air=1)
<b>Relative Density</b>	No available information
<b>Solubility in Water</b>	130 mg/l (at 25°C soluble in alcohol, acetic acid insoluble in benzene, petroleum ether)
<b>Partition coefficient n-octanol/water (Log Kow)</b>	1.66
<b>Auto-ignition temperature</b>	No available information
<b>Decomposition temperature</b>	No available information



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Viscosity (cSt) No available information  
VOC Content  
Oxidising properties No available information  
Explosive properties No available information  
Molecular Weight (mass)166.13  
Particle Characteristics  
Specific Gravity 1.54 (water=1)

9.2. Other information

No other relevant information.

Section 10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No available information

10.4. Conditions to avoid

Avoid high temperatures and contact with incompatible material

10.5. Incompatible materials

Combustible material

10.6. Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Isophthalic acid - (121-91-5)					



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Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
	10,400.00, Rat - Category: NA	> 2,000.00, Rabbit - Category: NA	No data available.	No data available.	No data available.

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0000121-91-5	Isophthalic acid	OSHA	Regulated Carcinogen: No;
NTP	Known: No; Suspected: No;		
IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		
ACGIH	No Established Limit		

Classification	Category	Hazard Description
Acute toxicity (oral)	---	LD50> 5000 mg / kg experimental species: Rat
Acute toxicity (dermal)	---	LD50> 2000 mg / kg experimental species: Rabbit
Acute toxicity (inhalation)	Dust/mist	LD50> 11370 mg / m <sup>3</sup> experimental species: Rat
Skin corrosion/irritation	---	Non-irritating (Rabbit)
Serious eye damage/irritation	---	Slight irritation (Rabbit)
Respiratory sensitization	---	No data available
Skin sensitization	---	Negative (guinea pig)
Germ cell mutagenicity	---	in vitro microbial reverse mutation test positive / negative in vitro chromosome aberration test negative
Carcinogenicity	---	No data available
Reproductive toxicity	---	No effects on fetal toxicity, developmental toxicity (rats, 10mg / m <sup>3</sup> , inhalation)
STOT-single exposure	---	No data available
STOT-repeated exposure	---	13 weeks urine test results decide, reported weak symptoms such as mild hydronephrosis renal pelvis cured in mice
Aspiration hazard	---	No data available

**Section 12. Ecological information**

**12.1. Toxicity**



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No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Isophthalic acid - (121-91-5)	1,000.00, Leuciscus idus	1,000.00, Daphnia magna	1,000.00, Scenedesmus subspicatus

**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential**

No available information

**12.4. Mobility in soil**

No available information

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

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No available information

**Section 13. Disposal considerations**

**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

**Section 14. Transport information**

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable





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#### 14.5. Environmental hazards

Marine Pollutant: No;

#### 14.6. Special precautions for user

No available information

### Section 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

#### Inventory - United States - Section 8(b) Inventory (TSCA):

Isophthalic acid ( Commercial Status Designation: ACTIVE)

The following flags are used:

- Active - indicates commercial status designation of active
- E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.
- F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the
- P - indicates a commenced Premanufacture Notice (PMN) substance.
- R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - indicates a substance that is identified in a final Significant New Uses Rule.
- SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
- T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.
- UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials
- XU -
- Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984
- Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

#### EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



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**EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**Mass RTK Substances (>1%) :**

**New Jersey RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



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**US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA List II or Essential Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US DHS Chemical Facility Anti-Terrorism Standards (CFATS):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

<p><b>Section 16. Other information</b></p>
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**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, express 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 damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, 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.

The full text of the phrases appearing in section 3 is: Not Applicable

END OF DOCUMENT

Approved – TL 12-29-2023