

Section 1. Identification

Revision Date: 08/14/2024

Product Identifier

Product Identity Isobornyl Methacrylate

Other Means of Identification Isobornyl Methacrylate (IBOMA)

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Uses: UV Coatings, Inks, Adhesives, Photoresists.

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 Emergency telephone number

Telephone No. Infotrac: 1-800-535-5053; Outside USA & Canada +1-

352-323-3500

Customer Service:

Section 2. Hazard(s) Identification

Classification of the Substance or Mixture Under OSHA's Hazard Communication Standard (1910.1200) Revised 2024 (GHS Revision 7)

Skin corrosion/irritation category 2; H315 Causes skin irritation.

Serious eye damage / eye irritation, category 2; Causes serious eye irritation.

H319

Specific target organ toxicity, Specific exposure

category 3; H335

Aquatic toxicity (chronic), category 3; H412 Harmful to aquatic life with long

lasting effects.

May cause respiratory irritation.

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Label Elements



Warning

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

[Prevention]

P233 Keep container tightly closed.

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, and face protection.

[Response]

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER, doctor or physician if you feel unwell.

P332+313 If skin irritation occurs: Get medical attention.

P337+313 If eye irritation persists: Get medical advice or attention.

P362+364 Take off contaminated clothing and wash it before reuse.

[Storage]

P403+233 Store in a well-ventilated place. Keep container tightly closed.



P405 Store locked up.

[Disposal]

P501 Dispose of contents or container in accordance with local and national regulations.

Other Hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

Section 3. Composition/Information on Ingredients

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This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical	Weight %	GHS Classification	Notes
Designations			
Isobornyl Methacrylate CAS Number: 7534-94-3 Synonyms: IBOMA		Serious eye damage / eye irritation, category 2; H319 Skin corrosion/irritation category 2; H315 Specific target organ toxicity, Specific exposure category 3; H335 Aquatic toxicity (chronic), category 3; H412	No data available.

The actual concentration or concentration range is withheld as a trade secret.

Section 4. First Aid Measures

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.

^{*}PBT/vPvB - PBT-substance or vPvB-substance.

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



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

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Most Important Symptoms and Effects, Both Acute and Delayed

Overview No specific symptom data available.

Treat symptomatically. See section 2 for further details.

Inhalation May cause respiratory irritation.Eyes Causes serious eye irritation.

Skin Causes skin irritation.

Section 5. Fire-Fighting Measures

Extinguishing Media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray. **Unsuitable extinguishing media:** Do not use; water jet.

Special Hazards Arising from the Substance or Mixture

Hazardous decomposition: High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat / pressure. Closed containers may rupture or explode during runaway polymerization.

Keep container tightly closed.

Avoid breathing dust, fume, gas, mist, vapors, spray.

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. ----

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures



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.

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Environmental Precautions

Do not allow spills to enter drains or waterways. Extinguish all ignition sources and ventilate area. Dispose/report per regulatory requirements.

Methods and Material for Containment and Cleaning Up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Section 7. Handling and Storage

Precautions for Safe Handling

Handle containers carefully to prevent damage and spillage.
This product is inhibited to prevent uncontrolled polymerization. A
polymerization can generate heat and pressure and may cause product
container to rupture. Check inhibitor content often and add inhibitor to bulk liquid
if needed.

See section 2 for further details. - [Prevention]

Conditions for Safe Storage, Including any Incompatibilities

Incompatible materials: Maintain head space in storage containers to support oxygen requirements of the inhibitor(s). Do not blanket or mix with oxygen free gas, and prevent material from freezing (inhibitor can separate from product as a solid). Store drums above 10 /50 and below 32 /90. Bulk storage temperature range:15-27 /59-80. Store drums away from heat sources, strong oxidizers, radiation and other initiators. Use product within six months of receipt for optimum results. If material freezes, heat and mix to redistribute the inhibitor. Product may also be heated to facilitate handling. Heat product container slowly to 40 /104 for not more than 24 hours. Convection ovens or warm water bath (preferred due to more efficient heat transfer) are recommended for heating. Do not use drum heater. An air space, preferably an air bubble flow, should be provided for at all times during heating. See section 2 for further details. - [Storage]



Specific End Use(s)

No available information.

Section 8. Exposure Controls / Personal Protection

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Control Parameters

Exposure

CAS No.	Ingredient	Source	Value	
7534-94-3	Isobornyl Methacrylate	OSHA	No established limit.	
		ACGIH	No established limit.	
		NIOSH	No established limit.	

Exposure Controls

Respiratory If workers are exposed to concentrations above the exposure limit they

must use the appropriate, certified respirators.

Eyes Wear safety glasses with side shields to protect the eyes. An eye wash

station is suggested as a good workplace practice.

Skin Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a

minimum. Refer to the manufacturer's recommendations regarding the

suitability of any gloves used.

Engineering Controls

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.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and

wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and Chemical Properties



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Information on Basic Physical and Chemical Properties

Physical State Liquid at 25 °C

Color No available information.

Odor Mild, musty odor. **Melting Point / Freezing Point** -94 °C (-137.2 °F) 258 °F (126 °C) **Initial Boiling Point and Boiling Range**

Flammability (Solid, Gas) No available information.

Upper/Lower Flammability or Explosive Lower Explosive Limit: No available

Limits

information. **Upper Explosive Limit:** No available

information. Flash Point 237.2 °F (114 °C) (Closed Cup)

Auto-Ignition Temperature No available information.

Decomposition Temperature No available information.

AP 6.8 - 7.2На

Viscosity (cSt) No available information. Solubility in Water No available information.

Partition Coefficient N-Octanol/Water **Log Pow:** 5.09

(Log K_{ow})

Vapor Pressure (Pa) 1.2 - 7.5 Pa, 20 - 25 °C 0.97-0.99 g/cm³ at 25 °C **Relative Density Vapor Density** No available information.

Evaporation Rate (Ether = 1) No available information. **Oxidising Properties** No available information. **Explosive Properties** No available information.

Other Information

No other relevant information.

Section 10. Stability and Reactivity

Reactivity

Excessive aging, heat, contamination with polymerization catalysts, oxygen-free atmosphere, inhibitor depletion or ultraviolet light (sunlight) may cause polymerization.

Chemical Stability

Unstable at elevated temperatures.

Possibility of Hazardous Reactions



Heat and pressure generation when polymerization and the result in closed container broken and cracked.

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Conditions to Avoid

High temperatures, localized heat sources (i.e., drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

Materials to Avoid

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen Scavengers.

Hazardous Decomposition Products

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

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,	Skin LD50,	Inhalation	Inhalation	Inhalation
	mg/kg	mg/kg	Vapor LC50, mg/L/4hr	Dust/Mist LC50, ma/L/4hr	
Isobornyl Methacrylate - (7534-94-3)			mg/L/4m	mg/L/4m	ppm
· · · · · · · · · · · · · · · · · · ·					
	> 5,000.00, Rat - Category: NA	No data available.	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
7534-94-3	Isobornyl Methacrylate	OSHA	Regulated Carcinogen: No.
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No established limit.

Classification	Category	Hazard Description
Acute Toxicity (Oral)		Not applicable.
Acute Toxicity (Dermal)		Not applicable.
Acute Toxicity (Inhalation)		Not applicable.
Skin Corrosion/Irritation	2	Causes skin irritation.



Serious Eye Damage/Irritation	2	Causes serious eye irritation.
Respiratory Sensitization		Not applicable.
Skin Sensitization		Not applicable.
Germ Cell Mutagenicity		Not applicable.
Carcinogenicity		Not applicable.
Reproductive Toxicity		Not applicable.
STOT-Single Exposure	3	May cause respiratory irritation.
STOT-Single Exposure		Not applicable.
STOT-Repeated Exposure		Not applicable.
Aspiration Hazard		Not applicable.

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Possible routes of entry:

Symptoms and Effects, Both Acute and Delayed:

No specific symptom data available.

Treat symptomatically.

Inhalation May cause respiratory irritation. **Eyes** Causes serious eye irritation.

Skin Causes skin irritation.

Section 12. Ecological Information

Toxicity

Harmful to aquatic life with long lasting effects.

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

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish,	48 hr EC50 crustacea,	ErC50 algae,
	mg/L	mg/L	mg/L
Isobornyl Methacrylate - (7534-94-3)	1.79, Danio rerio	2.58, Daphnia magna	2.66, Pseudokirchnerella subcapitata

Persistence and Degradability

There is no data available on the preparation itself.

Bio Accumulative Potential

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No available information

Mobility in Soil

No available information

Results of PBT and vPvB Assessment

This product contains no PBT/vPvB chemicals.

Other Adverse Effects

No available information.

Section 13. Disposal Considerations

Waste Treatment Methods

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

Section 14. Transport Information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN Number	Not regulated.	Not regulated.	Not regulated.
UN Proper	Not regulated.	Not regulated.	Not regulated.
Shipping Name	-	-	_
Transport Hazard Class(es)	DOT Hazard Class: Not applicable. Sub Class: Not applicable.	IMDG: Not applicable. Sub Class: Not applicable.	Air Class: Not applicable. Sub Class: Not applicable.

Packing Group Not applicable. Not applicable. Not applicable.

Environmental Hazards

Marine Pollutant: No.

Special Precautions for User

No available information.

Section 15. Regulatory Information



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Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive,

only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
0007534-94-3	Isobornyl Methacrylate	Yes		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 designated polymer made with any free-radical initiator regardless of the amount used.
- •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 indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
- •Y1 indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.
- •Y2 indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

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.

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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.

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.

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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.

Section 16. Other Information

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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:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

End of Document

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