

Revision Date: 05/30/2025

#### **Section 1. Identification**

**Product identifier** 

Product Identity Government Formula A 95%

Other means of identification Not Applicable

Relevant identified uses of the substance or mixture and uses advised against

See Technical Data Sheet.

Details of the supplier of the safety data sheet

**Company Name** Silver Fern Chemical, Inc.

121 W. De La Guerra Street, Suite B Santa Barbara, CA 93101 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)

Flammable Liquid, category 2;H225 Highly Flammable liquid and vapor.

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

2A;H319

Carcinogen, category 2;H351 Suspected of causing cancer.



**Revision Date: 05/30/2025** 

Specific target organ toxicity, Single exposure category 2;H371

May cause damage to organs.

#### Label elements







#### **Danger**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H371 May cause damage to organs.

#### [Prevention]

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, sparks, open flames, and other ignition sources - No smoking.

P233 Keep container tightly closed.

P235 Keep cool.

P240 Ground, bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, light, equipment.

P242 Use only non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust, fume, mist, vapors or spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

#### [Response]

P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

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

P308+313 IF exposed or concerned: Get medical advice or attention.

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

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

#### [Storage]

P403+235 Store in a well ventilated place. Keep cool.

P405 Store locked up.



**Revision Date: 05/30/2025** 

#### [Disposal]

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

#### Other hazards

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per US or Canadian regulations.

#### Section 3. Composition/information on ingredients

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 Designations	Weight %	GHS Classification	Notes
Ethanol CAS Number: 64-17-5 Synonyms: Ethyl Alcohol	65 - 85	Flammable Liquid, category 2;H225 Serious eye damage / eye irritation, category 2;H319	No data available
Isopropyl Alcohol CAS Number: 67-63-0 Synonyms: Propan-2-ol, ISOPROPANOL, ISOPROPYL ALCOHOL (manufacture-strong acid process, Solvent C-3	7 - 13	Flammable Liquid, category 2;H225 Serious eye damage / eye irritation, category 2;H319 Specific target organ toxicity, Single exposure category 3;H336	No data available
Methanol CAS Number: 67-56-1 Synonyms: methanol (as methanol), METHYL ALCOHOL	3-7	Flammable Liquid, category 2;H225 Acute toxicity(inhalation), category 3;H331 Acute toxicity(oral), category 3;H301 Acute toxicity(dermal), category 3;H311 Specific target organ toxicity, Single exposure category 1;H370 C ≥ 10 % Specific target organ toxicity, Single exposure category 2;H371 3 % ≤ C < 10 %	No data available
Methyl Isobutyl Ketone CAS Number: 108-10-1 Synonyms: Pentanone, 4-methyl-, 4-methylpentan-2-one, 4- Methyl-2-pentanon		Flammable Liquid, category 2;H225 Acute toxicity(inhalation), category 4;H332 Serious eye damage / eye irritation, category 2;H319 Carcinogen, category 2;H351 Specific target organ toxicity, Single exposure category 3;H336	No data available

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

<sup>\*</sup>PBT/vPvB - PBT, vPvM or vPvB-substance.

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



**Revision Date: 05/30/2025** 

#### 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.

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

vomiting.

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

**Overview** Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

Treat symptomatically. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

**Inhalation** May cause damage to organs.

**Eyes** Causes serious eye irritation.



**Revision Date: 05/30/2025** 

#### Section 5. Fire-fighting measures

#### **Extinguishing media**

CO<sub>2</sub>, Dry Chemical, Foam, Sand.

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

Hazardous decomposition: High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Keep away from heat, sparks, open flames, and other ignition sources - No smoking. Keep container tightly closed.

Keep cool.

Ground, bond container and receiving equipment.

Use explosion-proof electrical, ventilating, light, equipment.

Use only non-sparking tools.

Take action to prevent static discharges.

Do not breathe dust, fume, mist, vapors or 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. 127

#### 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.



**Revision Date: 05/30/2025** 

#### **Environmental precautions**

Do not allow spills to enter drains or waterways. Collect in flammable waste container for disposal.

#### 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. See section 2 for further details. - [Prevention]

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

Incompatible materials: Incompatible with strong oxidizing agents See section 2 for further details. - [Storage]

#### Specific end use(s)

No available information

#### Section 8. Exposure controls / personal protection

#### **Control parameters**

#### **Exposure Limits**

CAS No.	Ingredient	Source	Value
64-17-5	Ethanol	OSHA	1000 ppm, 1900 mg/m <sup>3</sup>
		ACGIH	1000 ppm
		NIOSH	TWA 1000 ppm (1900 mg/m³)
67-56-1	Methanol	OSHA	200 ppm, 260 mg/m <sup>3</sup>



Revision Date: 05/30/2025	Revis	ion	Date:	05/3	0/2025
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CAS No.	Ingredient	Source	Value
		ACGIH	200 ppm 250 ppm
		NIOSH	TWA 200 ppm (260 mg/m³) STEL: 250 ppm (325 mg/m³) [skin]
67-63-0	Isopropyl Alcohol	OSHA	400 ppm, 980 mg/m <sup>3</sup>
		ACGIH	200 ppm 400 ppm
		NIOSH	TWA 400 ppm (980 mg/m³) STEL: 500 ppm (1225 mg/m³)
108-10-1	Methyl Isobutyl Ketone	OSHA	100 ppm, 410 mg/m <sup>3</sup>
		ACGIH	20 ppm 75 ppm
		NIOSH	TWA 50 ppm (205 mg/m <sup>3</sup> ) STEL: 75 ppm (300 mg/m <sup>3</sup> )

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. Use neoprene or rubber gloves or PVC.

**Engineering** Provide adequate ventilation. Where reasonably practicable this should be

**Controls** 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 Use good personal hygiene practices. Wash hands before eating, drinking,

**Practices** 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

#### Information on basic physical and chemical properties

Physical StateLiquidColorClear

Odor No available information

Melting point / freezing point No available information

Initial boiling point and boiling range

80°C (176°F) Not Applicable

Flammability (solid, gas)
Upper/lower flammability or explosive

**Lower Explosive Limit:** 3.3%(V)



Revision Date: 05/30/2025

#### limits

**Upper Explosive Limit:**19%(V)

Flash Point 17°C (62°F) - closed cup

**Auto-ignition temperature** 363°C (685.4°F) - (Ethyl Alcohol)

Decomposition temperatureNo available informationpHNo available informationViscosity (cSt)No available informationSolubility in WaterCompletely Soluble

Partition coefficient n-octanol/water (Log No available information

Kow)

Vapor pressure (Pa)44.6mmHg (5.94 kPa)Relative DensityNo available information

Vapor Density 1.6 (air =1)

**Evaporation rate (Ether = 1)** Specific data not available - expected to be

rapid.

Oxidising properties

No available information

Explosive properties

No available information

Flammability Flammable Freezing Point -114°C (-173°F)

Other information

No other relevant information.

#### Section 10. Stability and reactivity

#### Reactivity

Hazardous Polymerization will not occur.

**Chemical stability** 

Stable under normal circumstances.

Possibility of hazardous reactions

No available information

Conditions to avoid

High temperatures and fires.

**Incompatible materials** 

Incompatible with strong oxidizing agents



**Revision Date: 05/30/2025** 

#### **Hazardous decomposition products**

High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

#### Section 11. Toxicological information

#### **Acute toxicity**

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

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,	Inhalation Dust/Mist	Inhalation Gas LC50,
	mg/kg		mg/L/4hr	LC50, mg/L/4hr	ppm
Ethanol - (64-17-5)					
	10,470.00, Rat - Category: NA	17,100.00, Rabbit - Category: NA	124.70, Rat - Category: NA	No data available.	No data available.
Isopropyl Alcohol - (67-63-0)					
	5,840.00, Rat - Category: NA	16,400.00, Rabbit - Category: NA	72.60, Rat - Category: NA	No data available.	No data available.
Methanol - (67-56-1)	101.10, Rat - Category: 3	301.00, Rabbit - Category:	2.10, Rat - Category: 3	No data available.	No data available.
Methyl Isobutyl Ketone -					
(108-10-1)	2,080.00, Rat -	16,000.00, Rabbit -	11.00, Rat - Category:	No data	No data



**Revision Date: 05/30/2025** 

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
	Category: 5	Category: NA	4	available.	available.

### **Carcinogen Data**

CAS No.	Ingredient	Source	Value
64-17-5	Ethanol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: Yes; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	A3
67-56-1	Methanol	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
67-63-0	Isopropyl Alcohol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes;
		ACGIH	A4
108-10-1	Methyl Isobutyl Ketone	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No;
		ACGIH	A3

Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation	2A	Causes serious eye irritation.
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity		Not Applicable
STOT-single exposure	2	May cause damage to organs.
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable

Possible routes of entry: No available information

### Symptoms and effects, both acute and delayed:

Possible cancer hazard. Contains an ingredient which may cause cancer based on animal



**Revision Date: 05/30/2025** 

data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

Treat symptomatically.

**Eyes** Causes serious eye irritation.

**Ingestion** May be harmful if swallowed.

### **Section 12. Ecological information**

#### **Toxicity**

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
Ethanol - (64-17-5)	15,400.00, Lepomis macrochirus	> 10,000, Daphnia magna	17.92, Ulva pertusa
Isopropyl Alcohol - (67-63-0)	10,000.00, Pimephales promelas	No data available.	No data available.
Methanol - (67-56-1)	15,400.00, Lepomis macrochirus	> 10,000.00, Daphnia magna	22,000.00, Pseudokirchneriella subcapitata
Methyl Isobutyl Ketone - (108-10- 1)	505.00, Pimephales promelas	201.00, Daphnia magna	980.00, Scenedesmus subspicatus

#### Persistence and degradability

There is no data available on the preparation itself.

**Bioaccumulative potential** 

No available information

Mobility in soil

No available information

Results of PBT and vPvB assessment



**Revision Date: 05/30/2025** 

This product contains no PBT/vPvB/vPvM chemicals.

#### Other adverse effects

No available information

#### Section 13. Disposal considerations

#### Waste treatment methods

Destroy by liquid incineration. Use absorbent material and deposit in toxic landfill in accordance with local, state, and federal regulations.

#### **Section 14. Transport information**

	DOT (Domestic Surface	IMO / IMDG (Ocean	ICAO/IATA
	Transportation)	Transportation)	
<b>UN</b> number	UN1987	UN1987	UN1987
UN proper	UN1987,Alcohols, n.o.s.	Alcohols, n.o.s.	Alcohols, n.o.s.
shipping	(Ethanol, Isopropyl	(Ethanol, Isopropyl	(Ethanol, Isopropyl
name	Alcohol),3,I	Alcohol)	Alcohol)
Transport	Class:3	Class:3	Class:3
hazard	Sub Class:Not Applicable	Sub Class:Not	Sub Class: Not
class(es)		Applicable	Applicable
Packing group	)	II	II

#### **Environmental hazards**

IMDG Marine Pollutant: No; **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.



**Revision Date: 05/30/2025** 

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
0000064-17-5	Ethanol	Yes		ACTIVE
0000067-63-0	Isopropyl Alcohol	Yes		ACTIVE
0000067-56-1	Methanol	Yes		ACTIVE
0000108-10-1	Methyl Isobutyl Ketone	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.

#### **EPCRA 302 Extremely Hazardous:**

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



**Revision Date: 05/30/2025** 

#### **EPCRA 313 Toxic Chemicals:**

Ethanol

Isopropyl Alcohol

Methanol

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

Methyl Isobutyl Ketone

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

Methanol

Methyl Isobutyl Ketone

#### **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:**



WARNING: This product can expose you to chemicals including [Methyl Isobutyl Ketone], which is known to the State of California to cause cancer, and [Methanol, Methyl Isobutyl Ketone], which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**Note:** Ethanol (Ethyl alcohol) has been placed on the California Proposition 65 Cancer and Developmental Lists when in alcoholic beverages.



under this statute.

### Silver Fern Chemical, Inc. Safety Data Sheet Government Formula A 95%

**Revision Date: 05/30/2025** 

Mass RTK Substances (>1%):
Ethanol
Isopropyl Alcohol
Methanol
Methyl Isobutyl Ketone
New Jersey RTK Substances (>1%):
Ethanol
Isopropyl Alcohol
Methanol
Methyl Isobutyl Ketone
Pennsylvania RTK Substances (>1%):
Ethanol
Isopropyl Alcohol
Methanol
Methyl Isobutyl Ketone
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

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.



**Revision Date: 05/30/2025** 

### 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:

Methyl Isobutyl Ketone

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

Methyl Isobutyl Ketone

#### **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.

#### EPCRA 311/312 Chemicals and RQs (lbs):

Methanol (5,000.00)

#### **Section 16. Other information**

**Revision Date** 

05/30/2025

#### **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:

H370 Causes damage to organs.

H371 May cause damage to organs.

**Revision Date: 05/30/2025** 

H225 Highly flammable liquid and vapor.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H336 May cause drowsiness and dizziness.
H351 Suspected of causing cancer.

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