



Section 1. Identification

Product identifier

Product Identity Methyl Propyl Ketone
Other means of identification Ethyl acetone; methyl propyl ketone; MPK

Relevant identified uses of the substance or mixture

Solvent

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

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.
Acute toxicity(oral), category 4;H302	Harmful if swallowed.
Serious eye damage / eye irritation, category 2;H319	Causes serious eye irritation.
Carcinogen, category 2;H351	Suspected of causing cancer.



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Label elements



Danger

H225 Highly flammable liquid and vapor.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.

[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.
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.



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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.

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

P330 IF SWALLOWED: Rinse mouth.

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.

[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

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
Methyl Propyl Ketone CAS Number: 107-87-9 Synonyms: Methylpropyl ketone, Pentan-2-one	>90%	Flammable Liquid, category 2;H225 Serious eye damage / eye irritation, category 2;H319 Acute toxicity(oral), category 4;H302	No data available
Methyl Isobutyl Ketone CAS Number: 108-10-1 Synonyms: 4-Methyl-2-pentanone, 4-methylpentan-2-one, Pentanone, 4-methyl-	<10%	Flammable Liquid, category 2;H225 Acute toxicity(inhalation), category 4;H332 Serious eye damage / eye	No data available



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Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
		irritation, category 2;H319 Carcinogen, category 2;H351 Specific target organ toxicity, Specific exposure category 3;H336	

The actual concentration or concentration range is 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

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 No specific symptom data available.
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. See section 2 for further details.

Eyes Causes serious eye irritation.



Ingestion Harmful if swallowed.

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: No hazardous decomposition data available.
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.

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.

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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.



Environmental precautions

Do not allow spills to enter drains or waterways.

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.

Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols.

Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Specific end use(s)

No available information

Section 8. Exposure controls / personal protection

Control parameters

Exposure

CAS No.	Ingredient	Source	Value
107-87-9	Methyl Propyl Ketone	OSHA	200 ppm, 700 mg/m ³
		ACGIH	150 ppm
		NIOSH	TWA 150 ppm (530 mg/m ³)



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CAS No.	Ingredient	Source	Value
108-10-1	Methyl Isobutyl Ketone	OSHA	100 ppm, 410 mg/m ³
		ACGIH	20 ppm 75 ppm
		NIOSH	TWA 50 ppm (205 mg/m ³) STEL: 75 ppm (300 mg/m ³)

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. Protective gloves recommended.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by using 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

Information on basic physical and chemical properties

Physical State	Liquid
Color	Colorless
Odor	ketone odor
Odor Threshold	11 ppm
Melting point / freezing point	-78 °C, -108.4°F
Initial boiling point and boiling range	101 °C, 213.8°F
Flammability (solid, gas)	No available information
Upper/lower flammability or explosive limits	Lower Explosive Limit: 1.56 %(V) Upper Explosive Limit: 8.7 %(V)
Flash Point	7.8 °C, 46.04°F (Tag closed cup)



Auto-ignition temperature	450 °C, 842°F
Decomposition temperature	(DTA) No exotherm to boiling
pH	No available information
Dynamic Viscosity	0.607 mPa.s (20 °C)
Solubility in Water	Moderately soluble in water
Partition coefficient n-octanol/water	Log Pow: 0.857
Vapor pressure (Pa)	37 mbar (20 °C)
Specific Gravity	0.81 (20 °C)
Vapor Density	2.9
Evaporation rate (Ether = 1)	2.3
Oxidising properties	No available information
Explosive properties	No available information
Other information	
Minimum ignition temperature	449 °C (ASTM D2155)

Section 10. Stability and reactivity

Reactivity

Hazardous Polymerization will not occur. Vapors may form explosive mixture with air.

Chemical stability

Stable under normal circumstances.

Possibility of hazardous reactions

Oxidizing agents.

Conditions to avoid

Avoid high temperatures and contact with incompatible material

Incompatible materials

Oxidizing agents.

Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

Acute toxicity



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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
Methyl Propyl Ketone - (107-87-9)	1,600.00, Rat - Category: 4	6,500.00, Rabbit - Category: NA	No data available.	No data available.	No data available.
Methyl Isobutyl Ketone - (108-10-1)	2,080.00, Rat - Category: 5	16,000.00, Rabbit - Category: NA	11.00, Rat - Category: 4	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
107-87-9	Methyl Propyl Ketone	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
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)	4	Harmful if swallowed.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable



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Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry:

Symptoms and effects, both acute and delayed::

No specific symptom data available.

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.

Eyes Causes serious eye irritation.

Ingestion 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
Methyl Propyl Ketone - (107-87-9)	1,240.00, Pimephales promelas	No data available.	No data available.
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

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	UN1224	UN1224	UN1224
UN proper shipping name	UN1224, Ketones, liquid, n.o.s. (CHEMICAL NAME), 3, III	Ketones, liquid, n.o.s. (CHEMICAL NAME)	Ketones, liquid, n.o.s. (CHEMICAL NAME)
Transport hazard class(es)	DOT Hazard Class: 3 Sub Class: Not Applicable	IMDG: 3 Sub Class: Not Applicable	Air Class: 3 Sub Class: Not Applicable
Packing group	II	II	II

Environmental hazards

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.

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
0000108-10-1	Methyl Isobutyl Ketone	Yes		ACTIVE
0000107-87-9	Methyl Propyl 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.



Proposition 65 - Carcinogens (>0.0%):

Methyl Isobutyl Ketone

Proposition 65 - Developmental Toxins (>0.0%):

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 birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Mass RTK Substances (>1%) :

Methyl Isobutyl Ketone

Methyl Propyl Ketone

New Jersey RTK Substances (>1%):

Methyl Isobutyl Ketone

Methyl Propyl Ketone

Pennsylvania RTK Substances (>1%):

Methyl Isobutyl Ketone

Methyl Propyl 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 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:

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.

<p>Section 16. Other information</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



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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:

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness and dizziness.

H351 Suspected of causing cancer.

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