



**Silver Fern Chemical, Inc.**  
**Safety Data Sheet**  
**Hexylene Glycol**

**Revision Date: 09/11/2024**

**Section 1. Identification**

**Product identifier**

**Product Identity**

Hexylene Glycol

**Other means of identification**

2-methylpentane-2,4-diol

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

Industrial Use: For manufacture of chemicals Professional use: In the manufacture of pH regulators and water treatment products and laboratory chemicals; in building & construction work, health services and scientific research and development; in manufacture of textile, leather or fur. Consumer use: lubricants and greases, anti-freeze products, adhesives and sealants, polishes and waxes, air care products, washing & cleaning products, coating products, fillers, putties, plasters, modelling clay, finger paints and cosmetics and personal care products.

**Uses Advised Against**

Not for use other than those specified

**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](mailto:info@silverfernchemical.com)  
Website - [www.silverfernchemical.com](http://www.silverfernchemical.com)

**24 hour Emergency  
Telephone No.**

**Infotrac: 1-800-535-5053**  
**Outside USA & Canada +1-352-323-3500**

**Section 2. Hazard(s) identification**



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This SDS is aligned with the Workplace Hazardous Materials Information System (WHMIS) and with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

**Classification of the substance or mixture**

Flam. Liq. 4;H227  
Skin Irrit. 2;H315  
Eye Irrit. 2;H319  
Repr. 2;H361D

Combustible Liquid.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of damaging the unborn child.

**Label elements**



**Warning**

H227 Combustible liquid.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H361d Suspected of damaging the unborn child.

**[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.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves, eye protection, and face protection.

**[Response]**

P302+352 IF ON SKIN: Wash with plenty of soap and water.  
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.  
P332+313 If skin irritation occurs: Get medical attention.



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P337+313 If eye irritation persists: Get medical advice or attention.  
P362+364 Take off contaminated clothing and wash it before reuse.  
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 Hazardous Products Regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
2-methylpentane-2,4-diol CAS Number: 107-41-5 Synonyms: 2,4-Pentanediol, 2-methyl-, Glycol hexylene	100%	Eye Irrit. 2;H319 Skin Irrit. 2;H315 Repr. 2;H361D	----

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.



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**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.  
Treat symptomatically. See section 2 for further details.

**Eyes** Causes serious eye irritation.  
**Skin** Causes skin irritation.

**Section 5. Fire-fighting measures**

**Extinguishing media**

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

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

Hazardous decomposition: Oxides of Carbon  
Keep away from heat, sparks, open flames, and other ignition sources - No smoking.  
Combustible liquid. May form toxic carbon oxides if burning. Closed container may rupture if strongly heated. Vapours can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint

**Advice for fire-fighters**

Cool closed containers exposed to fire with water spray.  
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.

**Section 6. Accidental release measures**



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**Personal precautions, protective equipment and emergency procedures**

For small spills and large spills: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Clear spills immediately. 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. Section 13 for disposal information

For containment: Contain released product, collect/pump into suitable containers.

Plug the leak, cut off the supply

For cleaning up: Soak up with inert absorbent material eg. sand, earth, vermiculite or powdered lime stone and keep in suitable, closed containers for disposal. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

**Section 7. Handling and storage**

**Precautions for safe handling**

Handle containers carefully to prevent damage and spillage.

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]

Measures to prevent fire: Keep away from naked flames/heat. Use spark-/explosion proof appliances.

Measures to prevent aerosol and dust generation: Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use.

Measures to protect the environment: Keep container tightly closed. If possible, use material transfer, metering and blending plants that are closed.

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



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Store in a cool dry area, away from heat, sparks and open flame.

Keep containers sealed when not in use.

Store out of direct sunlight.

Packaging material SUIABLE MATERIAL: steel, stainless steel, carbon steel, aluminum, copper, bronze, glass

Incompatible materials: Strong bases. Strong acids, reducers, acid anhydrides

See section 2 for further details. - [Storage]

Observe prohibition against storing together!

Stable under recommended storage conditions

Storage class: 10 Combustible liquid

**Specific end use(s)**

No available information

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

**Control parameters**

**Exposure**

CAS No.	Ingredient	Source	Value
107-41-5	2-methylpentane-2,4-diol	ACGIH	25 ppm (V) vapour 50 ppm (V) vapour, 10 mg/m <sup>3</sup> (I, H)
		Alberta	No Established Limit
		British Columbia	No Established Limit
		Manitoba	25 ppm TWA (vapor fraction) 50 ppm STEL (vapor fraction); 10 mg/m <sup>3</sup> STEL (inhalable particulate matter, aerosol only)
		New Brunswick	No Established Limit
		Newfoundland and Labrador	25 ppm TWA (vapor fraction) 50 ppm STEL (vapor fraction); 10 mg/m <sup>3</sup> STEL (inhalable particulate matter, aerosol only)
		Nova Scotia	25 ppm TWA (vapor fraction) 50 ppm STEL (vapor fraction); 10 mg/m <sup>3</sup> STEL (inhalable particulate matter, aerosol only)
		Northwest Territories	No Established Limit
		Nunavut	No Established Limit
		Ontario	No Established Limit
		Prince Edward Island	25 ppm TWA (vapor fraction) 50 ppm STEL (vapor fraction); 10 mg/m <sup>3</sup> STEL (inhalable particulate matter, aerosol only)
		Quebec	No Established Limit
		Saskatchewan	No Established Limit
		Yukon	No Established Limit

**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

**Skin**

Avoid skin contact. Protective gloves recommended.

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<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 vapour 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.

See section 2 for further details.

## Section 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Odour</b>	Sweetish
<b>Melting point / freezing point</b>	-50°C
<b>Initial boiling point and boiling range</b>	198.5°C
<b>Flammability (solid, gas)</b>	May be combustible at high temperatures
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> 1.0%v/v <b>Upper Explosive Limit:</b> 9.9%v/v
<b>Flash Point</b>	93°C (Closed cup)
<b>Auto-ignition temperature</b>	306°C
<b>Decomposition temperature</b>	No available information
<b>pH</b>	6.0-8.0 at 118.2g/L at 25oC
<b>Viscosity (cSt)</b>	37mm <sup>2</sup> /s (Dynamic viscosity 34mPa.s)
<b>Solubility in Water</b>	68.78g/l at 25°C (very soluble)
<b>Partition coefficient n-octanol/water (Log Kow)</b>	log Pow = 0.58 (calculated)
<b>Vapour pressure (Pa)</b>	0.05mmHg (6.66Pa) at 20°C
<b>Relative Density</b>	0.922 at 20°C
<b>Vapour Density</b>	4.08 (air =1)
<b>Evaporation rate (Ether = 1)</b>	<0.01 (butyl acetate = 1)
<b>VOC Content</b>	No available information
<b>Oxidising properties</b>	no oxidizing properties based on chemical structure.



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**Explosive properties**

no explosive properties based on chemical structure.

**Heat of combustion**

29875 kJ/kg at 25°C

**Heat of vapourization**

435 kJ/kg

**Other information**

No other relevant information.

**Section 10. Stability and reactivity**

**Reactivity**

Hazardous Polymerization will not occur.

**Chemical stability**

Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.

**Possibility of hazardous reactions**

No available information

**Conditions to avoid**

Avoid excessive heat and sources of ignition > 140F and cold < 30F.

**Incompatible materials**

Strong oxidizing agents, Strong acids, Acid anhydrides

**Hazardous decomposition products**

Thermal decomposition products- carbon oxides

**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 vapour LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
2-methylpentane-2,4-diol - (107-41-5)	No data available.	No data available.	No data available.	No data available.	No data available.





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## Carcinogen Data

CAS No.	Ingredient	Source	Value
107-41-5	2-methylpentane-2,4-diol	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)	---	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	2	Suspected of damaging the unborn child.
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.

Treat symptomatically.

**Eyes** Causes serious eye irritation.

**Skin** Causes skin irritation.

## 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
2-methylpentane-2,4-diol - (107-41-5)	9,910.00, Gambusia affinis	5,410.00, Daphnia magna	430.00, Pseudokirchneriella subcapitata



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Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L

**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**

Classification Method: Classified as per Part 2, Sections 2.1-2.8 of the Transportation of Dangerous Goods Regulations.

	<b>TDG (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>UN number</b>	Not Regulated	Not Regulated	Not Regulated
<b>UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>Transport hazard class(es)</b>	<b>TDG 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>Packing group</b>	Not Applicable	Not Applicable	Not Applicable

**Environmental hazards**

Marine Pollutant: No;



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**Special precautions for user**

No available information

**Section 15. Regulatory information**

This product has been classified in accordance with the hazard criteria Hazardous Products Regulations (SOR/2015-17 amended 2022-12-15) and the SDS contains all of the information required by those regulations.

**Canadian Domestic Substance List (DSL):**

2-methylpentane-2,4-diol

**Canadian Non-Domestic Substance List (NDSL):**

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.

H361 Suspected of damaging fertility or the unborn child.

**End of Document**