



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.

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

Flammable Liquid 4; H227

Skin corrosion/irritation category 2; H315

Serious eye damage / eye irritation, category 2;
H319

Reproductive toxicity, category 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 OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

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%	Serious eye damage / eye irritation, category 2; H319 Skin corrosion/irritation category 2; H315 Reproductive toxicity, category 2; H361D	No data available

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.



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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.
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, CO₂, 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. Vapors 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.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For small spills and large spills: Use personal protective equipment. Avoid breathing vapors, 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 limestone 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



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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

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	OSHA	No Established Limit
		ACGIH	25 ppm (V) Vapor 50 ppm (V) Vapor, 10 mg/m ³ (l, H)
		NIOSH	C 25 ppm (125 mg/m ³)

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.

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



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



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Heat of combustion
Heat of Vaporization

29875 kJ/kg at 25°C
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 Vapor 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.

Carcinogen Data

CAS No.	Ingredient	Source	Value
107-41-5	2-methylpentane-2,4-diol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;



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CAS No.	Ingredient	Source	Value
		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	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

Persistence and degradability



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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	Not Regulated.	Not Regulated.	Not Regulated.
UN proper shipping name	Not Regulated.	Not Regulated.	Not Regulated.
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
0000107-41-5	2-methylpentane-2,4-diol	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.



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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%) :

2-methylpentane-2,4-diol

New Jersey RTK Substances (>1%):

2-methylpentane-2,4-diol

Pennsylvania RTK Substances (>1%):

2-methylpentane-2,4-diol

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.



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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>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 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.

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