



**Silver Fern Chemical, Inc.  
Safety Data Sheet  
Dimethylamine 60%**

**Revision Date:  
13 November, 2025**

**Section 1. Identification**

**Product Identity** Dimethylamine 60%  
**Other means of identification** Dimethylamine Solution, N-Methyl-Methanamine Solution, DMA 60%

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

**Use of the substance:**

Rubber applications, used in solvents and a growing use for monomethylamine (MMA)

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

**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 Gas, category 1;H220	Extremely flammable gas.
Gas under pressure;H280	Contains gas under pressure; may explode if heated.
Acute toxicity(oral), category 4;H302	Harmful if swallowed.
Acute toxicity(inhalation), category 4;H332	Harmful if inhaled.



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Skin corrosion/irritation category 1B;H314

Causes severe skin burns and eye damage.

Serious eye damage / eye irritation, category 1;H318

Causes serious eye damage.

Specific target organ toxicity, Single exposure category 3;H335

May cause respiratory irritation.

**Label elements**



**Danger**

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

**[Prevention]**

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical /ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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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.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, protective clothing, eye protection, 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 or shower.  
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.  
P310 Immediately call a POISON CENTER, doctor or physician.  
P312 Call a POISON CENTER, doctor or physician if you feel unwell.  
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P363 Wash contaminated clothing before reuse.  
P377 Leaking gas fire - do not extinguish unless leak can be stopped safely.  
P381 In case of leakage, eliminate all ignition sources.

**[Storage]**

P403+233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P410+403 Protect from sunlight. Store in a well-ventilated place.

**[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 the US EPA PFASMASTER combined list of PFAS chemicals.

<p><b>Section 3. Composition/information on ingredients</b></p>
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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 Designations	Weight %	GHS Classification	Notes
Di-methylamine CAS Number: 124-40-3 Synonyms: 1-chloro-2,3-epoxypropane, Dimethylamine	60%	Flammable Gas, category 1;H220 Gas under pressure;H280 Acute toxicity(inhalation), category 4;H332 Acute toxicity(oral), category 4;H302 Specific target organ toxicity, Single exposure category 3;H335: C ≥ 5 % Skin corrosion/irritation category 1B;H314	No data available
Water CAS Number : 7732-18-5	40%		

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

\*PBT/vPvB - PBT, vPvM 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.  
No chronic toxicity or long-term toxicity information available. Treat symptomatically. See section 2 for further details.

**Inhalation** Harmful if inhaled. May cause respiratory irritation.

**Eyes** Causes serious eye damage.

**Skin** Causes severe skin burns and eye damage.



**Ingestion** Harmful if swallowed.

## 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: Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide, Nitrosamine, Ammonia  
Keep away from heat, sparks, open flames, and other ignition sources - No smoking.  
Do not breathe dust, fume, mist, vapors or spray. The product will float on water and can be reignited on surface water.

### 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



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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. Avoid inhalation of vapor or mist. Do not get on skin or clothing. Do not get in eyes. Do not taste or swallow. Ensure adequate ventilation. Wash thoroughly after handling.  
See section 2 for further details. - [Prevention]

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

Incompatible materials: No available information  
Keep containers tightly closed in a cool, well-ventilated place.  
Keep away from heat. Keep in properly labeled containers.  
Incompatible Material: Metals. Strong oxidizing agents. Acids. Halogens. Peroxides.  
Carbon dioxide (CO<sub>2</sub>)

#### **Specific end use(s)**

No available information

#### **Advice on protection against**

Keep away from heat, hot surfaces, sparks, open flames.

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

#### **Control parameters**

#### **Exposure Limits**

CAS No.	Ingredient	Source	Value
124-40-3	Di-methylamine	OSHA	10 ppm, 18 mg/m <sup>3</sup>
		ACGIH	5 ppm 15 ppm
		NIOSH	TWA 10 ppm (18 mg/m <sup>3</sup> )



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**Exposure  
controls**

<b>Respiratory</b>	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
<b>Eyes</b>	Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
<b>Skin</b>	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.
<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 vapor 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.

<b>Section 9. Physical and chemical properties</b>
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**Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Ammoniacal
<b>Odor threshold</b>	No available information.
<b>Melting point / freezing point</b>	Concentration: 60 % not determined
<b>Initial boiling point and boiling range</b>	54 °C
<b>Flammability (solid, gas)</b>	Gas
<b>Upper/lower flammability or explosive limits</b>	Lower Explosive Limit: LEL 2.8 %(V) HEL 14.4%(V) Upper Explosive Limit: 14.4 %(V)
<b>Flash Point</b>	-18 °C
<b>Auto-ignition temperature</b>	756 °F / 402 °C
<b>Decomposition temperature</b>	not determined
<b>pH</b>	No available information
<b>Viscosity (cSt)</b>	1.70 mPa,s



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<b>Solubility in Water</b>	Completely Soluble
<b>Partition coefficient n-octanol/water</b>	Log Pow: -0.274
<b>Vapor pressure (Pa)</b>	57 kPa (68 °F / 20 °C) 172.2 kPa (122 °F / 50 °C)
<b>Relative Density</b>	0.8232 (68 °F / 20 °C)
<b>Vapor Density</b>	not determined
<b>Critical Pressure</b>	51.7 Atm.
<b>Evaporation rate (Ether = 1)</b>	not determined
<b>Oxidising properties</b>	The substance or mixture is not classified as oxidizing.
<b>Explosive properties</b>	Not explosive
<b>self-ignition</b>	756 °F / 402 °C
<b>Critical Temperature</b>	164.6 °C

**Other information**

No other relevant information.

**Section 10. Stability and reactivity**

**Reactivity**

Hazardous Polymerization will not occur. Materials containing similar structural groups are normally stable.

**Chemical stability**

Stable under normal circumstances.

**Possibility of hazardous reactions**

No available information

**Conditions to avoid**

Avoid high temperatures and contact with incompatible material. Heat, flames and sparks. Take precautionary measures against static discharges.

**Incompatible materials**

Zinc, Copper, Aluminum, Mercury, Strong acids and oxidizing agents, Halogenated hydrocarbons

**Hazardous decomposition products**

Nitrogen oxides (NOx), Carbon monoxide, Nitrosamine, Ammonia.

**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
Di-methylamine - (124-40-3)	1,000.00, Rat - Category: 4	3,900.00, Rat - Category: 5	No data available.	No data available.	No data available.

### Carcinogen Data

CAS No.	Ingredient	Source	Value
124-40-3	Di-methylamine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	A4

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	4	Harmful if inhaled.
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-single exposure	3	May cause respiratory irritation.
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

### Possible routes of entry:

Inhalation, ingestion, skin contact, and skin absorption.

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

No specific symptom data available.

No chronic toxicity or long-term toxicity information available. Treat symptomatically.

### Eyes

Causes serious eye damage.



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**Skin** Causes severe skin burns and eye damage.  
**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
Di-methylamine - (124-40-3)	118.00, <i>Oryzias latipes</i>	88.67, <i>Daphnia magna</i>	9.00, <i>Pseudokirchnerella subcapitata</i>

### 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/vPvM 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



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	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN1160	UN1160	UN1160
UN proper shipping name	UN1160, Dimethylamine Aqueous solution ,3(8),II	Dimethylamine Aqueous solution	Dimethylamine Aqueous solution
Transport hazard class(es)	Class: 3 Sub Class: 8	Class: 3 Sub Class: 8	Class: 3 Sub Class: 8
Packing group	II	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.

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
0000124-40-3	Di-methylamine	Yes		ACTIVE



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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.

**EPCRA 313 Toxic Chemicals:**

Di-methylamine

**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.

**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.



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**Mass RTK Substances (>1%) :**

Di-methylamine

**New Jersey RTK Substances (>1%):**

Di-methylamine

**Pennsylvania RTK Substances (>1%):**

Di-methylamine

**OSHA Process Safety Management Standard Highly Hazardous Chemicals,  
Toxics and Reactives:**

Di-methylamine

**US EPA List of Regulated Substances under the Risk Management Plan (RMP)  
Program:**

Di-methylamine- 10,000 lbs.

**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.

**US DHS Chemical Facility Anti-Terrorism Standards (CFATS):**

Di-methylamine- Release: Screening Threshold Quantities 10,000 lbs.

**CERCLA Chemicals and RQs (lbs):**

Di-methylamine ( 1,000.00)



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<b>Section 16. Other information</b>
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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:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

**End of Document**