

SAFETY DATA SHEET

1. Identification

Material name: Tremco BIO Prime
Material: 7711650 805

Recommended use and restriction on use

Recommended use: Coatings
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco CPG Inc. - U.S. Roofing
3735 Green Road
Beachwood OH 44122
US

Contact person: EH&S Department
Telephone: 216-292-5000
Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Toxic to reproduction Category 1B

Unknown toxicity - Health

| | |
|--|---------|
| Acute toxicity, oral | 11.16 % |
| Acute toxicity, dermal | 11.19 % |
| Acute toxicity, inhalation, vapor | 13.87 % |
| Acute toxicity, inhalation, dust or mist | 11.7 % |

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: May damage the unborn child.

Precautionary Statements

| | |
|--------------------|--|
| Prevention: | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. |
| Response: | IF exposed or concerned: Get medical advice/attention. |
| Storage: | Store locked up. |
| Disposal: | Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations. |

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients**Mixtures**

| Chemical Identity | CAS number | Content in percent (%)* |
|---------------------------------|------------|-------------------------|
| 1-Methyl-2-pyrrolidinone | 872-50-4 | 1 - <5% |
| Triethylamine | 121-44-8 | 0.1 - <1% |
| Dipropylene glycol methyl ether | 34590-94-8 | 0.1 - <1% |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures**Description of necessary first-aid measures**

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| Inhalation: | Move to fresh air. |
| Skin Contact: | Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention. |
| Eye contact: | Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention. |
| Ingestion: | Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. |
| Personal Protection for First-aid Responders: | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |

Most important symptoms/effects, acute and delayed

| | |
|------------------|------------------------------------|
| Symptoms: | May cause skin and eye irritation. |
| Hazards: | No data available. |

Indication of immediate medical attention and special treatment needed

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| Treatment: | Get medical attention if symptoms occur. |
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5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: No data available.

Accidental release measures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Methods and material for containment and cleaning up: Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Safe handling advice: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Contact avoidance measures: No data available.

Hygiene measures: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Observe good industrial hygiene practices.

Storage

Safe storage conditions: Store locked up.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
|---------------------------------|------|-----------------------|---|
| Triethylamine | PEL | 25 ppm 100 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| | TWA | 0.5 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| | STEL | 1 ppm | US. ACGIH Threshold Limit Values, as amended (03 2015) |
| Dipropylene glycol methyl ether | PEL | 100 ppm 600 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| | TWA | 50 ppm | US. ACGIH Threshold Limit Values, as amended (01 2021) |

| Chemical name | Type | Exposure Limit Values | Source |
|---------------------------------|------|-----------------------|---|
| 1-Methyl-2-pyrrolidinone | TWA | 400 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (12 2007) |
| Triethylamine | STEL | 1 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017) |
| Triethylamine | TWA | 0.5 ppm | Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2018) |
| | STEL | 1 ppm | Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2018) |
| | TWA | 0.5 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017) |
| Triethylamine | STEL | 1 ppm | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020) |
| | TWA | 0.5 ppm | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020) |
| Dipropylene glycol methyl ether | STEL | 150 ppm 909 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |
| | TWA | 100 ppm 606 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |

| | | | |
|---------------------------------|------|---------|---|
| Dipropylene glycol methyl ether | TWA | 100 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010) |
| | STEL | 150 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010) |
| Dipropylene glycol methyl ether | TWA | 100 ppm | Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2022) |
| | STEL | 150 ppm | Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (06 2022) |

Biological Limit Values

| Chemical Identity | Exposure Limit Values | Source |
|---|-----------------------|---------------------|
| 1-Methyl-2-pyrrolidinone (5-Hydroxy-N-methyl-2-pyrrolidone: Sampling time: End of shift.) | 100 mg/l (Urine) | ACGIH BEI (03 2013) |

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear goggles/face shield.

Skin Protection

Hand Protection: Additional Information: Use suitable protective gloves if risk of skin contact.

Skin and Body Protection: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

| | |
|---|----------------------|
| Physical state: | liquid |
| Form: | liquid |
| Color: | clear green |
| Odor: | Mild |
| Odor threshold: | No data available. |
| pH: | 8.14 |
| Melting point/freezing point: | No data available. |
| Initial boiling point and boiling range: | > 99.9 °C > 211.8 °F |

| | |
|--|---|
| Flash Point: | No data available. |
| Evaporation rate: | Slower than Ether |
| Flammability (solid, gas): | No |
| Upper/lower limit on flammability or explosive limits | |
| Flammability limit - upper (%): | No data available. |
| Flammability limit - lower (%): | No data available. |
| Explosive limit - upper: | No data available. |
| Explosive limit - lower: | No data available. |
| Vapor pressure: | No data available. |
| Vapor density: | Vapors are heavier than air and may travel along the floor and in the bottom of containers. |
| Relative density: | 1.01 |
| Solubility(ies) | |
| Solubility in water: | Soluble |
| Solubility (other): | No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| Auto-ignition temperature: | No data available. |
| Decomposition temperature: | No data available. |
| Viscosity: | No data available. |

10. Stability and reactivity

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|--|---|
| Reactivity: | No data available. |
| Chemical Stability: | Material is stable under normal conditions. |
| Possibility of hazardous reactions: | No data available. |
| Conditions to avoid: | Avoid heat or contamination. |
| Incompatible Materials: | Strong acids. Strong bases. |
| Hazardous Decomposition Products: | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

11. Toxicological information

Information on likely routes of exposure

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|----------------------|---|
| Inhalation: | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. |
| Skin Contact: | Causes mild skin irritation. |
| Eye contact: | Eye contact is possible and should be avoided. |
| Ingestion: | May be ingested by accident. Ingestion may cause irritation and malaise. |

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 171,377.13 mg/kg

Dermal

Product:

Specified substance(s):

1-Methyl-2-pyrrolidinone LD 50 (Rat): > 5,000 mg/kg

Triethylamine LD 50 (Rabbit): 580 mg/kg

Dipropylene glycol methyl ether LD 50 (Rabbit): 9,510 mg/kg

Inhalation

Product:

Specified substance(s):

1-Methyl-2-pyrrolidinone LC 50 (Rat): > 5.1 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

1-Methyl-2-pyrrolidinone in vivo (Rabbit): Irritating , 24 - 72 h

Triethylamine in vivo (Rabbit): Corrosive , > 0 - 48 h

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Dipropylene glycol methyl ether Rabbit, 24 - 72 h: Not irritant

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish**Product:** No data available.**Specified substance(s):**

1-Methyl-2-pyrrolidinone LC 50 (Oncorhynchus mykiss, 96 h): > 500 mg/l Experimental result, Key study

Triethylamine LC 50 (Oryzias latipes, 96 h): 24 mg/l Experimental result, Key study

Dipropylene glycol methyl ether LC 50 (Pimephales promelas, 96 h): > 10,000 mg/l Experimental result, Supporting study

Aquatic Invertebrates**Product:** No data available.**Specified substance(s):**

Triethylamine LC 50 (Ceriodaphnia dubia, 48 h): 17 mg/l experimental result Experimental result, Key study

Dipropylene glycol methyl ether LC 50 (Daphnia magna, 48 h): 1,919 mg/l experimental result Experimental result, Key study

Chronic hazards to the aquatic environment:**Fish****Product:** No data available.**Specified substance(s):**

Triethylamine LOAEL (Oncorhynchus mykiss): 3.2 mg/l experimental result Experimental result, Key study

Aquatic Invertebrates**Product:** No data available.**Specified substance(s):**

1-Methyl-2-pyrrolidinone NOAEL (Daphnia magna): 12.5 mg/l experimental result Experimental result, Key study

Triethylamine NOAEL (Daphnia magna): 11 mg/l experimental result Experimental result, Key study

Dipropylene glycol methyl ether NOAEL (Daphnia magna): ≥ 0.5 mg/l experimental result Experimental result, Key study**Toxicity to Aquatic Plants****Product:** No data available.**Persistence and Degradability****Biodegradation****Product:** No data available.**Specified substance(s):**

1-Methyl-2-pyrrolidinone 73 % (28 d) Detected in water. Experimental result, Key study
Triethylamine 80.3 % Detected in water. Experimental result, Key study
Dipropylene glycol methyl ether 96 % Detected in water. Experimental result, Key study

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.

Specified substance(s):
Triethylamine Cyprinus carpio, Bioconcentration Factor (BCF): < 0.5 Aquatic sediment
Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Specified substance(s):
1-Methyl-2-pyrrolidinone Log Kow: -0.38
Triethylamine Log Kow: 1.45

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal methods: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:
Not Regulated

CFR / DOT:
Not Regulated

IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Identity

1-Methyl-2-pyrrolidinone

Reportable quantity

De minimis concentration: TSCA 6% Annual Export Notification required.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

Triethylamine

Reportable quantity

5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Delayed (Chronic) Health Hazard
Reproductive toxicity

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Not Regulated.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

Chemical Identity

1-Methyl-2-pyrrolidinone

% by weight

1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC:

Regulatory VOC (less water and
exempt solvent) : 177 g/l

VOC Method 310 : 2.38 %

Inventory Status:

| | |
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| Australia Industrial Chem. Act (AIC): | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada DSL Inventory List: | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada NDSL Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |
| Ontario Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |
| China Inv. Existing Chemical Substances: | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan (ENCS) List: | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan ISHL Listing: | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan Pharmacopoeia Listing: | One or more components in this product are not listed on or exempt from the Inventory. |
| Korea Existing Chemicals Inv. (KECI): | One or more components in this product are not listed on or exempt from the Inventory. |
| Mexico INSQ: | One or more components in this product are not listed on or exempt from the Inventory. |
| New Zealand Inventory of Chemicals: | One or more components in this product are not listed on or exempt from the Inventory. |
| Philippines PICCS: | One or more components in this product are not listed on or exempt from the Inventory. |
| Taiwan Chemical Substance Inventory: | One or more components in this |

| | |
|---|--|
| | product are not listed on or exempt from the Inventory. |
| US TSCA Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |
| Switzerland New Subs Notified/Registered: | One or more components in this product are not listed on or exempt from the Inventory. |
| Thailand DIW Existing Chemical Inv. List: | One or more components in this product are not listed on or exempt from the Inventory. |
| Vietnam National Chemical Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |
| EC Inventory: | One or more components in this product are not listed on or exempt from the Inventory. |

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| 16. Other information, including date of preparation or last revision |
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|-----------------------------|---|
| Revision Date: | 06/27/2023 |
| Version #: | 1.0 |
| Further Information: | No data available. |
| Disclaimer: | For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. |