

# Safety Data Sheet/ Fiche Signalétique – Glue Remover

## Section 1 – Identification

**Product identifier:** Glue Remover

**Supplier:** Multi-Blend Ltd., 6535 Millcreek Drive, Units 9-12, Mississauga, Ontario, L5N 2M2, 905-678-9559, admin@multiblend.com

**Recommended use:** Solvent

**Emergency contact:** Canutec – 1-888-CAN-UTEC (226-8832) or 613-996-6666 or \*666 on a cellular phone.

## Section 2 – Hazard Identification

### Classification:

Clear colourless liquid. Mild amine odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable Liquid - Category 4

Skin Irritation - Category 2

Serious eye damage/eye irritation - Category 2A

Reproductive Toxicity-Category 1

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)

### GHS Label Elements:



Signal word: Danger

### Hazard statement(s)

Combustible liquid.

Causes skin irritation.

Causes serious eye irritation.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

May cause respiratory irritation.

### Precautionary statement(s)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from flames and hot surfaces. - No smoking.

Avoid breathing mist or vapours.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

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

In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed. Keep cool. **Dispose of contents/container in accordance with local regulation.**

### Other hazards

Other hazards which do not result in classification :May be sensitive to static discharge. Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

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### 3 – Composition/Information on ingredients

Ingredient	CAS	Concentration w/v%
N-Methyl-2-pyrrolidone	872-50-4	100%

### Section 4 – First Aid Measures

#### Description of first aid measures

**Ingestion** : Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

**If inhaled**: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

**Skin contact** : Immediately flush with plenty of water, while removing contaminated clothing. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

**For eye contact**, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

May cause respiratory irritation. May cause coughing and breathing difficulties. Causes serious eye irritation. Symptoms may include stinging, tearing, redness and swelling.

Causes skin irritation. May cause drowsiness or dizziness. Symptoms may include redness, edema, drying defatting and cracking of the skin. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May damage fertility or the unborn child.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically. This product is a CNS depressant

### Section 5 – Fire Fighting Measures

#### Extinguishing media:

*Suitable extinguishing media* Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam; Water fog .

*Unsuitable extinguishing media* Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

Highly flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

May form explosive peroxides. Rate of peroxide formation is not known.

**Flammability classification (OSHA 29 CFR 1910.106)**: Flammable Liquid - Category 4

**Hazardous combustion products**: Carbon dioxide, carbon monoxide and other unidentified organic compounds.

#### Special protective equipment and precautions for firefighters

*Protective equipment for fire-fighters* : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

*Special fire-fighting procedures*: Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

#### Special protective equipment and precautions for firefighters

*Protective equipment for fire-fighters*: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

*Special fire-fighting procedures*: Fight fires from a safe distance. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

### Section 6 – Accidental Release Measures

**Personal precautions**: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the clean-up must wear appropriate personal protective equipment. For personal protection see section 8.

**Spill response**: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

**Methods and material for containment and cleaning up**: Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with inert, non-combustible absorbent material (e.g. sand, vermiculite), then place material into open, unsealed containers. For waste disposal, see Section 13 of the SDS.

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## Section 7 – Handling and Storage

**Safe handling procedures:** Use only in well-ventilated areas. Wear suitable protective equipment during handling. Do not ingest or swallow. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat, sparks and open flames. Use only non-sparking tools with this material. Avoid contact with incompatible materials. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not use pressure to empty drums. Do not cut, weld, drill or grind on or near this container. Follow labeled warnings even after container is emptied.

**Safe storage procedures:** Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

**Incompatible materials :** Strong oxidizing agents, Activated carbon, Strong reducing agents.

## Section 8 – Exposure Controls and Personal Protection

Ingredient	Time-Weighted Average Limit (TWA)	Short-Term Exposure Limit (STEL) / Ceiling Limit (C)
N-Methyl-2-pyrrolidone	10 ppm (skin) (AIHA WEEL)	N/Av

**Engineering controls:** Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof electrical and ventilating equipment.

**Personal protective equipment (PPE):**

**Skin:** Wear impervious gloves, such as nitrile rubber. Advice should be sought from glove suppliers.

**Eyes:** Chemical splash goggles are recommended. A full face shield may also be necessary.

**Respiratory:** Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

**Other:** An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Other equipment may be required depending on workplace standards.

**General hygiene considerations:** Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

## Section 9 – Physical and Chemical Properties

**Physical state:** Liquid.

**Appearance:** Clear.

**Odour:** Mild amine odor.

**Odour Threshold:** Not available

**pH:** 7.7-8

**Freezing point:** -24°C (-11.2°F)

**Boiling point:** 202°C (395.6°F)

**Flash point:** 93 °C (199.4°F) Cleveland closed cup

**Flammability:** Not applicable

**Flammability limits:** Upper: 9.5%, Lower: 1.3%

**Vapour pressure:** 0.03 mmHg

**Vapour density:** 3.4

**Specific gravity:** 1.03

**Solubility:** Soluble in water - Soluble in most organic solvents.

**Partition coefficient:** -46.

**Auto ignition temperature:** 346.11°C (655°F)

**Decomposition temperature:** No data available.

**Viscosity:** 1.65 mPa.s.

**Evaporation rate:** Not available.

## Section 10 – Stability and Reactivity

**Chemical stability:** Stable. See STORAGE AND HANDLING, Section 7

**Hazardous reactions:** May decompose to carbon dioxide and/or carbon monoxide.

**Conditions to avoid:** Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Avoid heat, open flames, sparks, static electricity and electrical equipment. May form explosive peroxides. Rate of peroxide formation is not known.

## Section 11 – Toxicological Properties

Ingredient	LD50 (Oral)	LD50 (Dermal)	LD50 (Inhalation)
N-Methyl-2-pyrrolidone	4150 mg/kg	>5000 mg/kg (rat)	> 5.1 mg/L

**Potential Health Effects:**

**Signs and symptoms of short-term (acute) exposure**

*Sign and symptoms Inhalation:* May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.

*Sign and symptoms ingestion:* Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



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*Sign and symptoms skin:* Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin.

*Sign and symptoms eyes:* Causes severe eye irritation. Symptoms may include stinging, tearing, redness and swelling.

**Potential Chronic Health Effects** Prolonged exposure can cause central nervous system effects.

**Mutagenicity** : Not expected to be mutagenic in humans.

**Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects & Teratogenicity** : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Reproductive Toxicity-Category 1 May damage fertility or the unborn child.

**Sensitization to material** : Not expected to be a skin or respiratory sensitizer.

**Specific target organ effects** : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification: Specific target organ toxicity, single exposure - Category 3. May cause drowsiness or dizziness. May cause respiratory irritation. The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Medical conditions aggravated by overexposure** : Pre-existing skin, eye, respiratory and central nervous system disorders.

**Synergistic materials** : No information available.

**Toxicological data:** See table above.

**Synergistic materials:** No data available.

**Other important hazards:** No data available.

### Section 12 – Ecological Information

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**Ecotoxicity:** No data available.

**Biodegradability:** No data available.

**Bioaccumulation:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

### Section 13 – Disposal Considerations

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**Handling for disposal:** According to precautions outlined in HANDLING AND STORAGE, Section 7 and EXPOSURE CONTROLS and PERSONAL PROTECTION, Section 8.. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

**Methods of disposal:** Follow all applicable federal, state/provincial and municipal regulations. For specific information, contact your federal, state/provincial or local environmental agency.

### Section 14 – Transport information

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**UN Number:** NONE

**UN Proper Shipping Name:** NONE

**Hazard Class:** NONE

**Packing Group:** NONE

**Additional precautions:** Keep away from heat, sparks and open flame. - No smoking.

### Section 15 – Regulatory Information

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**WHMIS 2015:** Refer to HAZARDS IDENTIFICATION, Section 2

### Section 16 – Other information

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LD: Lethal Dose, ATE: Acute Toxicity Estimate, WHMIS: Workplace Hazardous Materials Identification System

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Contact Multi-Blend Ltd. (905-678-9559, admin@multiblend.com) with questions or for support.

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