

1. Identification

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|---|---|-------------------------------|--|
| Product identifier | Bug Basher | | |
| Other means of identification | NM0810-JUN2018 | | |
| Recommended use | Vehicle windshield washer fluid | | |
| Recommended restrictions | Not for food, drug, or household use. | | |
| Manufacturer/Importer/Supplier/Distributor information | | | |
| Manufacturer | | | |
| Company name | Nemco Resources Ltd | | |
| Address | 25 Midland Street Winnipeg, MB R3E 3J6 Canada | | |
| Telephone | Phone: | 204-788-1030 | |
| | Fax: | 204-788-1593 | |
| | Toll Free: | 855-755-6737 (M-F 8am-4:30pm) | |
| Website | www.nemco.ca/msds-safety-information | | |
| E-mail | info@nemco.ca | | |
| Emergency phone number | NEMCO: | 855-755-6737 (M-F 8am-4:30pm) | |
| Supplier | See above. | | |

2. Hazard identification

| | | |
|------------------------------|--|-------------|
| Physical hazards | Flammable liquids | Category 4 |
| Health hazards | Reproductive toxicity | Category 1B |
| | Specific target organ toxicity following single exposure | Category 2 |
| Environmental hazards | Not classified. | |

Label elements



| | |
|---------------------------------|--|
| Signal word | Danger |
| Hazard statement | Combustible liquid. May damage fertility or the unborn child. May cause damage to organs. |
| Precautionary statement | |
| Prevention | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapour. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing, eye protection and face protection. |
| Response | IF exposed or concerned: Call a POISON CENTRE/doctor. In case of fire: Use appropriate media to extinguish. |
| Storage | Store in a well-ventilated place. Store locked up. |
| Disposal | Dispose of container in accordance with local, regional, national and international regulations. |
| Other hazards | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------|--------------------------|------------|--------|
| Methanol | | 67-56-1 | *1 - 5 |

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

Composition comments *CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

| | |
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| Inhalation | If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. |
| Skin contact | Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists. |
| Eye contact | Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists. |
| Ingestion | Rinse mouth. Do not induce vomiting. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention. |
| Most important symptoms/effects, acute and delayed | Direct contact with eyes may cause temporary irritation. |
| Indication of immediate medical attention and special treatment needed | Treat patient symptomatically. |
| General information | If exposed or concerned: Get medical attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | The product is combustible, and heating may generate vapours which may form explosive vapour/air mixtures. During fire, gases hazardous to health may be formed. |
| Hazardous combustion products | May include and are not limited to: Oxides of carbon. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | Combustible liquid. |

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| Environmental precautions | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters. |

7. Handling and storage

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| Precautions for safe handling | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. |
| Conditions for safe storage, including any incompatibilities | Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children. |

8. Exposure controls/Personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|------------------------|------|---------|
| Methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components | Type | Value |
|------------------------|------|----------------------|
| Methanol (CAS 67-56-1) | STEL | 328 mg/m3 |
| | | 250 ppm |
| | TWA | 262 mg/m3 200 ppm |

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components | Type | Value |
|------------------------|------|---------|
| Methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

| Components | Type | Value |
|------------------------|------|---------|
| Methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |

Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191), as amended

| Components | Type | Value |
|------------------------|------|----------------------|
| Methanol (CAS 67-56-1) | STEL | 328 mg/m3 |
| | | 250 ppm |
| | TWA | 262 mg/m3 200 ppm |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components | Type | Value |
|------------------------|------|---------|
| Methanol (CAS 67-56-1) | STEL | 250 ppm |
| | TWA | 200 ppm |

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components | Type | Value |
|------------------------|------|----------------------|
| Methanol (CAS 67-56-1) | STEL | 328 mg/m3 |
| | | 250 ppm |
| | TWA | 262 mg/m3 200 ppm |

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

| Components | Type | Value |
|------------------------|-----------|---------|
| Methanol (CAS 67-56-1) | 15 minute | 250 ppm |
| | 8 hour | 200 ppm |

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|------------------------|---------|-------------|----------|---------------|
| Methanol (CAS 67-56-1) | 15 mg/L | Methanol | Urine | * |

* - For sampling details, please see the source document.

Exposure guidelines

Canada - Alberta OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Methanol (CAS 67-56-1)

Danger of cutaneous absorption

Canada - Ontario OELs: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Methanol (CAS 67-56-1)

Danger of cutaneous absorption

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields.

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves. Confirm with a reputable supplier first.

Other

Wear appropriate chemical resistant clothing. As required by employer code.

Respiratory protection

Chemical respirator with organic vapour cartridge and full facepiece. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards

Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not smoke. When using do not eat or drink.

9. Physical and chemical properties

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|---|--|
| Appearance | Liquid |
| Physical state | Liquid. |
| Form | Liquid. |
| Colour | Pink |
| Odour | Mild alcohol. |
| Odour threshold | Not available. |
| pH | 7 - 9 |
| Melting point/freezing point | 0 °C (32 °F) |
| Initial boiling point and boiling range | 98 °C (208.4 °F) Industry value for methanol solution at formula ratio |
| Flash point | 70.0 °C (158.0 °F) TCC |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapour pressure | Not available. |
| Vapour density | Not available. |
| Relative density | 0.9945 @15.6C |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |

| | |
|----------------------------------|----------------|
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising. |

10. Stability and reactivity

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|---|--|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other chemicals. |
| Incompatible materials | Strong oxidising agents. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | May cause damage to organs by inhalation. Prolonged inhalation may be harmful. |
| Skin contact | No adverse effects due to skin contact are expected. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | May cause stomach distress, nausea or vomiting. |

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Although the lethal dose of methanol is high for most experimental animals (> 2000 mg/kg bw after single oral administration) these data are not employed for classification. The classification is only based upon the experiences in humans and classifies methanol as acutely toxic by oral, dermal and inhalative exposure and, furthermore, as capable of inducing serious irreversible effects upon single exposure by all of these routes. (ECHA 2020)

| Components | Species | Test Results |
|--|--|---|
| Methanol (CAS 67-56-1) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 17100 mg/kg, ECHA |
| <i>Inhalation</i> | | |
| LC50 | Cat | 43.7 mg/L, 6 Hours, ECHA |
| <i>Oral</i> | | |
| LD50 | Human | 143 - 300 mg/kg, HSNO CCID/Sigma-Aldrich |
| | Rat | 1187 - 2769 mg/kg, ECHA |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | |
| Exposure minutes | Not available. | |
| Erythema value | Not available. | |
| Oedema value | Not available. | |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. | |
| Corneal opacity value | Not available. | |
| Iris lesion value | Not available. | |
| Conjunctival reddening value | Not available. | |
| Conjunctival oedema value | Not available. | |
| Recover days | Not available. | |

Respiratory or skin sensitisation

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|---|--|
| Respiratory sensitisation | Not a respiratory sensitizer. |
| Skin sensitisation | This product is not expected to cause skin sensitisation. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | See below. |
| Reproductive toxicity | May damage fertility or the unborn child. |
| Specific target organ toxicity - single exposure | May cause damage to organs. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | Prolonged inhalation may be harmful. |
| Further information | Not available. |

12. Ecological information

Ecotoxicity See below

Ecotoxicological data

| Components | Species | Test Results |
|--------------------------------------|---|------------------------|
| Methanol (CAS 67-56-1) | | |
| Aquatic | | |
| Crustacea | EC50 Water flea (<i>Daphnia magna</i>) | > 10000 mg/L, 48 hours |
| Fish | LC50 Fathead minnow (<i>Pimephales promelas</i>) | > 100 mg/L, 96 hours |
| Persistence and degradability | No data is available on the degradability of any ingredients in the mixture. | |
| Bioaccumulative potential | No data available. | |
| Mobility in soil | No data available. | |
| Mobility in general | Not available. | |
| Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. | |

13. Disposal considerations

| | |
|--|--|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. Transport information

General Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Methanol (CAS 67-56-1) 1 TONNES

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS status Hazardous

International regulations

Inventory status

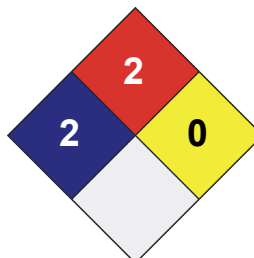
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|-------------------------------------|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|----------------------------|-----|
| HEALTH | * 2 |
| FLAMMABILITY | 2 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | |



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Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

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