

Dust Stop Municipal Blend

SECTION 1: IDENTIFICATION

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| Product Name: | Dust Stop Municipal Blend |
| Synonyms: | DSMB |
| CAS Number: | See Section 3 |
| Product Use: | A water-based nonhazardous, environmentally friendly and biodegradable liquid used for dust control on roads |
| Manufacturer/Supplier: | Cypher Environmental Ltd. |
| General Information: | WHMIS Classification: Not Controlled |
| Address: | Cypher Environmental Ltd. 1149 St. Matthews Ave. Winnipeg Manitoba R3G 0J8 Canada |
| Emergency Number: | Tel: (204)-489-1214 Fax: (204)489-7372 |

Section 2: HAZARD IDENTIFICATION

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| Health Environmental Physical: | Biodegradable |
| Acute Toxicity: | Non-Toxic, pathogen free. |
| Skin/Eye Corrosion: | Contact with skin may result in mild irritation. |
| Mutagenicity/ Carcinogenicity/Developmental: | Non-mutagenic and non-carcinogenic Based on available information, none of the ingredients in Dust Stop Municipal Blend are regulated nor listed as potential cancer agents by Federal OSHA, NTP or IARC. |
| Reproductive/Developmental: | Not Determined |
| Target Organ Toxicity (Repeated): | Not Determined |
| Toxicity: | Non-Toxic, pathogen free |

GHS Label:



Signal Word:

DANGER!

Hazard Statements:

| WHMIS HAZARD RATING INFORMATION | FLAMMABILITY | HEALTH | REACTIVITY |
|---------------------------------|--------------|--------|------------|
| 0-Minimal 1-Slight 2-Moderate | 0 | 1 | 0 |
| 3-Serious 4-Severe | | | |

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Unique Identifiers

| INGREDIENTS (Complex mixture) | % by weight | CAS NO. |
|--|-------------|------------|
| Water | 5-10 | - |
| Proprietary Anionic Polyelectrolyte Additive | Proprietary | CAS Listed |
| Proprietary Additive | Proprietary | CAS Listed |
| Reduced Sugars | Proprietary | CAS Listed |
| Silicates and Carbonates | Proprietary | Mixture |

* Based on available information, none of the ingredients in Dust Stop Municipal Blend are regulated nor listed as potential cancer agents/hazardous by Federal OSHA, NTP or IARC.

Section 4: FIRST AID MEASURES

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| Eye: | A slight eye irritant. |
| Skin: | Contact with skin may result in mild irritation, rinse with plenty of water. |
| Inhalation and Ingestion: | Considered non-harmful by all exposure routes, if breathing is difficult remove to fresh air. |
| Signs and Symptoms of Exposure: | None. Ingestion may cause mild nausea or diarrhea. |

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguisher
Media: Treat the same as water

Fire Fighting
Procedures: Isolate fire area and deny unnecessary entry, Soak thoroughly with water to cool and prevent re ignition. Cool surroundings with water to localize fire zone. Hand held carbon dioxide or dry chemical hazard may result from forceful application of fire extinguishing agents. Do not enter fire area without protective equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

PPE: Eye: Safety goggles
Respirator: Not applicable
Clothing: Regular on-Site clothing

Emergency
Procedures: In case of accidental spill or discharge, take up and containerize for disposal according to state and local regulations. This product displays ultimate biodegradability under both aerobic and anaerobic conditions and if spilled should not cause any adverse short or long term environmental impacts. Ventilation requirements as normal

Methods and Materials
For Containment and
Cleaning Up: For smaller spills, Wash contaminated area with water and flush into sewage system or any other disposal system. For large spills, soak up with sand or sweeping compound and dispose at solid waste

Section 7: HANDLING AND STORAGE

Handling: **Keep container closed when not in use. If container is being stored for extended periods, provide minimal to moderate agitation every few weeks ensuring re-homogenization of product.**

Storage: **Storage Temperature (Degrees C/F)**
Minimum: 10°C (50°F)
Maximum: 20-25°C (68-77°F)
Application Temperature:
Minimum: 10°C (50°F)
Maximum: 57°C (135°F)
Optimum Working Temperature Range:
18-45°C (64-113°F)
*Store product in an area that is not exposed to direct sunlight and in an environment within the conditions stated above.

Section 8: EXPOSURE TO CONTROLS AND PERSONAL PROTECTION

OSHA PEL's: Not Applicable

Exposure Limits: Dust Stop Municipal Blend presents no health hazards to the user, other than mild eye and skin irritancy.

Engineering Controls:

No specific engineering controls needed, it is recommended to handle concentrated product in a well ventilated area

PPE:

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| Eye Protection: | Safety goggles, avoid eye contact or exposure to concentrated amounts of product |
| Skin Protection: | Regular on-Site clothing , rinse from skin when exposed to product |
| Respiratory Protection: | Respirator: Not applicable, ventilation as normal |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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| Flashpoint: | Not flammable; not combustible |
| Auto Ignition: | None |
| Boiling Point: | >100°C |
| Melting Point: | Liquid |
| Freezing Point: | <0°C |
| Vapor Pressure: | Not Determined |
| Miscibility with water: | Miscible in all proportions |
| Solubility in Water: | Soluble |
| Lower and Upper Flammability Limits: | Not flammable |
| Specific Gravity: | 1.24 @ 25 ° |
| Density: | 1.4 g/cm ² @ 25 ° |
| pH: | 9.19 |
| Ultimate Biodegradability: | DOC reduction >90% after 28 days |
| Appearance: | Brown slightly viscous liquid |
| Odor: | Sweet organic odor |
| Composition: | A blend of carbohydrates, water-soluble polymers, and solid mineral. |

Section 10: STABILITY AND REACTIVITY

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| Stability/ Incompatibility: | Stable for a minimum of two years when stored in proper conditions (see above section 7) |
| Hazardous Reactions/Decomposition Products Reactivity: | Not determined |
| Chemical Stability: | Stable |
| Conditions To Avoid: | Storage above 50°C (120°F) or below 0°C (32°F). Avoid contact with strong oxidizing and reducing agents. |
| Incompatible Materials: | None |
| Hazardous Decomposition Products: | Not determined, None |

Section 11: TOXICOLOGICAL INFORMATION

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| Signs, Symptoms of Over Exposure and First Aid Treatment: | <p>Eye Contact: Reddening may develop. Immediately rinse the eye with large quantities of cool water. Continue 10-15 minutes or until material has been removed. Be sure to remove contact lenses, if present, and lift upper and lower lids during rinsing. Get medical attention if irritation persists.</p> <p>Skin Contact: Minimal effects, if any. Rinse skin with water. Rinse shoes and laundry clothing before reuse.</p> <p>Swallowing: Essentially non-toxic. Product may cause a slight laxative condition. Give several glasses of water to dilute if swallowed. Do not induce vomiting. If stomach upset persists, consult a physician.</p> <p>Inhalation: Non-toxic. Prolonged exposure to product in a mist form (not recommended) could cause a mild irritation of the nasal passages and throat. Remove to get fresh air. Get medical attention if irritation persists.</p> |
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Section 12: ECOLOGICAL INFORMATION

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| Bio Accumulative Potential: | The product exhibits ultimate biodegradability under anaerobic conditions as defined by US EPA methods (40 CFR part 796.3180). |
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Section 13: DISPOSAL CONSIDERATIONS

See section 6

Section 14: TRANSPORTATION INFORMATION

This product is non-toxic, transport in conditions described in section 7 above.

INTERNATIONAL AIR TRANSPORTATION ASSOCIATION: this product is not regulated by IATA, when shipped internationally.

Section 15: REGULATORY INFORMATION

SARA/TITLE III – CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 304.4): This product **does not** contain an ingredient(s) listed as a hazardous ingredient for Emergency Release Notification under section 304.

SARA/TITLE III – List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 300 & 305): This product **does not** contain an ingredient(s) listed as an extremely hazardous substance (EHS) for Emergency Planning under sections 301-303 and for Emergency Release Notification under section 304.

SARA/TITLE III – List of Toxic Chemical subject to Release Reporting (Community Right to Know) (40 CFR 372): This product **does not** contain an ingredient(s) listed as a toxic chemical for Annual Release Reporting Requirements under section 313.

Section 16: OTHER INFORMATION

Date of SDS August 2016
Preparation:

Original or Revised Last Updated August 2016
Copy: **Reasonable care has been taken to ensure information and advice contained in this data sheet is accurate at the time of printing. However, Cypher Environmental Ltd. Accepts no liability for any loss or damages suffered as a consequence of reliance on the information contained herein.**

Changes Made to
Original SDS:

Disclaimers: Please contact the supplier for application instructions, the application rate/procedure may fluctuate depending on specific uses of product and applications.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.