

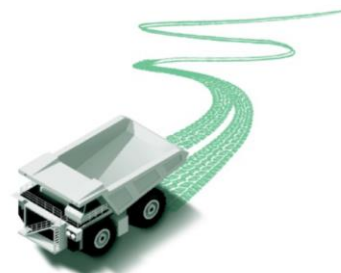
Dust Stop (DS)

SECTION 1: IDENTIFICATION

Product Name:	Dust Stop
Synonyms:	DS
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

Section 2: HAZARD IDENTIFICATION

Health Environmental Physical:	Biodegradable
Volatility:	Non-Volatile
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 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



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Hazard Statements:

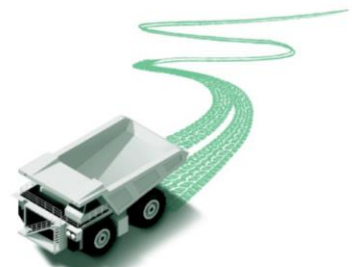
WHMIS HAZARD RATING INFORMATION	FLAMMABILITY	HEALTH	REACTIVITY
0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe	0	1	0

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Unique Identifiers

Components	CAS Number	EC Number	Registration Number	CLP Classification	Amount
Water	7732-18-5	231-791-2	NA	Not Classified	Proprietary
Proprietary Anionic Polyelectrolyte Additive	9005-53-2	232-682-2	NA	Not Classified	Proprietary
Reduced Sugars	9004-34-6	232-674-9	NA	Not Classified	Proprietary
	50-99-7	200-075-1	NA	Not Classified	Proprietary
	57-50-1	200-334-9	NA	Not Classified	Proprietary
	57-48-7	200-333-3	NA	Not Classified	Proprietary
	6363-53-7	613-294-6	NA	Not Classified	Proprietary
Silicates and Carbonates	1309-48-4	215-171-9	NA	Not Classified	Proprietary

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



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Section 4: FIRST AID MEASURES

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. Handheld 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



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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: -50°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:
 5 °C - 45°C (41-113°F)
 *Store product in an area that is not exposed to direct sunlight and in an environment within the conditions stated above. This product is also freeze-thaw stable, once thawed, provide agitation.

Section 8: EXPOSURE TO CONTROLS AND PERSONAL PROTECTION

OSHA PEL's: Not Applicable

Exposure Limits: Dust Stop 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 and Eye Protection: Safety goggles/gloves, 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

Flashpoint: Not flammable; not combustible

Auto Ignition: None

Boiling Point: >100°C

Melting Point: Liquid

Freezing Point: <0°C

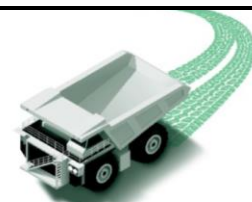
Vapor Pressure: Not Determined



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

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



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Section 11: TOXICOLOGICAL INFORMATION

Signs, Symptoms of
Over Exposure and
First Aid Treatment:

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.

Skin Contact: Minimal effects, if any. Rinse skin with water. Rinse shoes and laundry clothing before reuse.

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.

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.

Section 12: ECOLOGICAL INFORMATION

Bio Accumulative
Potential:

The product exhibits ultimate biodegradability under anaerobic conditions as defined by US EPA methods (40 CFR part 796.3180).

Section 13: DISPOSAL CONSIDERATIONS

See section 6

Section 14: TRANSPORTATION INFORMATION

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

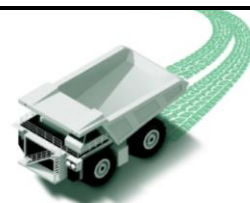
INTERNATIONAL AIR TRANSPORTATION ASSOCIATION: this product is not regulated by IATA, when shipped internationally.

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.



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Section 16: OTHER INFORMATION

Date of SDS August 2016
Preparation:

Original or Revised Last Updated June 2020
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.**

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