

SAFETY DATA SHEET

CERANOVUS® A SERIES POLYETHYLENE ADDITIVES

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier

Product Name: Ceranovus A Series Polyethylene Additives
Product Grades: A115, A120, A125

1.2 Product Use Description

Various: Polymer and asphalt additive, process aid, etc.

1.3 Supplier Details

Supplier: GreenMantra Technologies
81 Elgin Street,
Brantford, ON N3S 5A1, Canada

For more information call: + 1.888.519.2015
(Monday-Friday, 9:00am-5:00pm)

1.4 Emergency Telephone Number + 1.888.519.2015 x 105
(24 hr/day, 7 days/week)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

WHMIS 2015: Combustible dust

EC Classification: Not classified as dangerous under EC criteria

2.2 Label Elements

Signal Word: Warning
Hazard Statements: May form combustible dust concentrations in air
Precautionary Statements: Prevention (Use personal protective equipment as required)

2.3 Other Hazards

Carcinogenicity: No component of these products are present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC or OSHA

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

No hazardous ingredients as identified by the Canadian Hazardous Products Bill (BILL C70) or by OSHA 29 CFR 1910.1200.

Component

Chemical Nature:	Substance
Chemical Family:	Hydrocarbon mixture: Formula (C ₂ H ₄) _x
CAS Number:	9002-88-4
EINECS Number:	Not applicable (polymer)

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures

INHALATION: If breathing is difficult, remove individual to fresh air and keep at rest in a position comfortable for breathing. If symptoms continue, get medical attention.

SKIN: Exposure to fumes, vapors or smoke of thermally degraded product can result in irritation to skin. Direct contact of the molten material will cause injury and burns. For burns apply running water to injured area for 15 minutes. Do not peel solidified product off the skin. Get medical attention.

EYE CONTACT: If dust or molten material contacts the eye, immediately flush eyes with generous amounts of water for at least 15 minutes. Administer prompt first aid measures. Get medical attention if irritation develops or persists.

INGESTION: Unlikely route of exposure. If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention if symptoms continue.

4.2 Important Symptoms and Effects, both Acute and Delayed

Refer to Section 11 – Toxicological Information

4.3 Immediate Medical Attention Indicators and Special Treatment

Notes to physician: Treat symptomatically. Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary

SECTION 5 - FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Water mist, foam, dry chemical, CO2

Unsuitable Extinguishing Media: Water spray

5.2 Special Hazards

**Hazardous
combustion products:**

Carbon dioxide, carbon monoxide and other products such as acids, aldehydes and ketones, depending on conditions of oxidation.

5.3 Special Firefighting Procedures

- This product will float on water, so avoid water spray if possible
- Use water to keep containers cool

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions:

Do not walk through spilled material. Do not breathe dust/vapor. Avoid contact with skin and eyes. Wear appropriate personal protective equipment, avoid direct contact

Emergency Procedures:

Contain spill and monitor for excessive dust/vapor accumulation. Avoid unnecessary personnel and equipment traffic in the spill area. Ventilate closed spaces before entering

6.2 Environmental Precautions

Keep material out of sewers and watercourses by diking or impounding

6.3 Methods and Material for Containment and Cleanup

Containment/Cleanup: Handle as a thermoplastic

Measures:

- Recover and place into appropriate containers for recycling or disposal, according to prevailing local, state, and federal laws
- Refer to Section 8 – Exposure Controls/ Personal Protection
- Refer to Section 13 – Disposal Considerations

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

- Handling:
- Avoid contact with molten material; do not breathe fumes, vapors, dust, or sprays from molten or burning material.
 - Do not use in areas without adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres
 - Use appropriate Personal Protective Equipment (PPE). Avoid contact with skin and eyes. Wash thoroughly with soap and water after handling

7.2 Conditions for Safe Storage

- Storage:
- Keep container closed and in ventilated area, away from ignition sources, heat, open flames, and direct sunlight
 - When kept in molten state, inert gas blanketing may be used to avoid material degradation

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Personal Protective Equipment

Respiratory:	At elevated temperatures, well above the melting point, organic vapors can be generated, and material should be handled using appropriate ventilation and respiratory equipment
Eye/Face:	Wear safety goggles
Hands:	Wear thermally resistant gloves and long sleeves when handling molten product
Skin/Body:	Wear long sleeves and/or protective coveralls
Feet:	Wear splash-resistant shoes

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Physical and Chemical Properties

Appearance White to Black*	Odor Product specific Odor Threshold Not available	Physical state Solid @25°C	pH Not applicable
Vapor pressure (mm Hg) <0.01 @25°C	Density ** 0.90 to 0.97 g/cm ³ @25°C	Solubility in Water Negligible	Solubility in Organic Solvents Soluble
UEL Not available	LEL Not available	Auto Ignition Not available	TDG Flammability Not dangerous
Boiling Point/Range Not available	Evaporation Rate Not available	Partition Coefficient Not available	Viscosity @140°C** 112 to 3040 cPs

Product Number in A Series	Flash Point (°C) ASTM D92 ***
A115, A120, A125	>250
Product Number in A Series	Melting Point (°C) ***
A115, A120, A125	>110
Product Number in A Series	Decomposition Temperature (°C)***
A115, A120, A125	>300

* Color will vary from white to black depending on the specific grade

** Will vary depending on the specific product grade

*** Values are based on an average result of multiple tested samples

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBLE MATERIALS: Unreactive; avoid contact with strong oxidizing agents, e.g., peroxides and chlorines

Hazardous combustion products

Carbon dioxide, carbon monoxide and other products such as acids, aldehydes and ketones, depending on conditions of oxidation.

SECTION 11 - TOXICOLOGICAL INFORMATION

CARCINOGENICITY CLASSIFICATION		ROUTE OF ENTRY	
IARC Not listed	ACGIH Not listed	Skin contact X	Inhalation acute X
OSHA Not listed		Skin absorption	Inhalation acute X
NTP Not listed		Eye contact	Ingestion

Effects of acute exposure to material

Fumes have been reported to be irritating to the respiratory tract. Molten product will cause thermal burns on contact with the skin.

Effects of chronic exposure to material

In rats, chronic ingestion has shown accumulation in target organs (liver, spleen) with associated nonspecific immune response.

SECTION 12 - ECOLOGICAL INFORMATION

Material is not considered harmful to the environment. Nevertheless, material from spills and other generated waste must be disposed of properly in conformance with all local, state and federal laws.

SECTION 13 - DISPOSAL CONSIDERATION

This material is not an RCRA hazardous waste material. Follow local regulatory laws for proper disposal.

SECTION 14 - TRANSPORTATION INFORMATION

DOT proper shipping name	Not regulated
DOT hazardous classification	Not applicable
DOT Haz. Mat table 172.101	Not listed
DOT appendix to sec. 172.101	Not listed
DOT labels required	None
DOT placards required	<ul style="list-style-type: none">- None for solid product- None for molten product shipped under 212°F/100°C.- Hot molten product shipped over 212°F/100°C requires a class 9 "HOT" placard- Bill of lading must carry the statement:- Elevated temperature material, liquid, N.O.S. 9, UN3257, III (WAX).

TDG classification Not controlled under TDG (Canada).

Sea-IMDG (International Maritime Dangerous Goods): Class not regulated

Air-ICAO (International Civil Aviation Organization): Class not regulated

SECTION 15 - REGULATORY INFORMATION

15.1 Chemical Inventory

Canada:	The ingredients of this product are on or in compliance with DSL.
United States:	The ingredients of this product are on or in compliance with TSCA inventory
Australia:	The ingredients of this product are on or in compliance with the Industrial Chemical (Notification and Assessment) Act
Japan:	The ingredients of this product are on or in compliance with the Kashin-Hou Law List
Korea:	The ingredients of this product are on or in compliance with the Toxic Chemical Control Law (TCCL) List
Philippines:	The ingredients of this product are on or in compliance with the Toxic Substances and Hazardous and Nuclear waste Control Act
China:	The ingredients of this product are on or in compliance with the Inventory Of Existing Chemical Substances.
New Zealand:	The ingredients of this product are on or in compliance with the Inventory Of Chemicals (NZIoC) as published by ERMA New Zealand.

15.2 National Regulatory Information

WHMIS Classification:	Not Rated
California Prop 65:	In compliance. No reportable substances
CONEG:	These products are in compliance with the heavy metals requirements of the Coalition of North Eastern Governors and the California Toxics in Packaging Prevention Act (AB2021)
CERCLA:	In the event of a spill the end user should verify whether reporting is required under local, state, province or federal regulations
Ozone Depleting Substances:	None reportable in compliance with 40 (US) CFR 82
European Hazardous Chemicals:	Does not contain reportable REACH SVHC. In compliance with 1272/2008/EC, 2011/65/EC (RoHS), 2012/19/EU (WEEE). These polymers are not hazardous according to EC Directives.

SECTION 16 - OTHER INFORMATION

16.1 Disclaimer

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