



# SAFETY DATA SHEET (SDS)

Date Revised: 07 / 15 Supercedes: 10 / 12

**ENVIROMELT PLUS Ice / Snow Melt** PELLETIZED - BETTER THAN FLAKES / POWDERS UREA-BASED - CONTAINS NO CHLORIDES (SALTS)

SAFE ON NEW CONCRETE AFTER 6 MONTHS **EFFECTIVE UP TO 20° F AND BELOW** MINIMALLY CORROSIVE TO CONCRETE / METAL

#### SECTION 1: IDENTIFICATION OF SUBSTANCE / COMPANY

PRODUCT NAME / IDENTIFIER:

PRIMARY APPLICATION / RECOMMENDED USAGE:

DISTRIBUTED EXCLUSIVELY BY:

**INFORMATION TELEPHONE: EMERGENCY TELEPHONE:** 

**USAGE RESTRICTIONS:** 

"ENVIROMELT PLUS" - ICE / SNOW MELT

A Non-Chloride de-icer containing mostly carbamide ( urea ) which is used in areas where chlorides (salts) cannot be tolerated. Safe to use on "new" concrete over 6 months old and under 2 years old. Ingredients in this Ice / Snow Melt have been shown to be non-corrosive to concrete, metals, & other sensitive surfaces when used as directed. Minimizes chances of spalling and erosion. Outdoor steps, sidewalks, driveways, and potentially slippery areas are made safer within minutes after application .

**HEALTHY CLEAN BUILDINGS** 

4 Wilmington Drive Melville, New York 11747 1-631-643-1882 1-516 - 377 - 7772 Refer to Product Label

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture ( GHS-US ):

Skin Irritation: Category 2 Eye Irritation: Catergory 2 A

NOTE: Prolonged contact with skin or eyes may cause minor physical irritation. Ingredients used to make this product are not acutely toxic.

**Label Elements** 

**Hazard Pictograms** 

( GHS-US Labeling )



Mild Skin & Eye Irritant

Signal Word:

Warning

Hazards :.

H316: May Cause Mild Skin Irritation.

H320: May Cause Eye Irritation.

Precautionary Statements: P101: If medical advice is required, have product container or label available.

P102 Keep Out of Reach of Children P103 . Read Label Before Use .

P264: In the Event of Direct Contact, Wash Hands and Forearms Thoroughly After Handling P305+P351+P338 - If In Eyes via Direct Contact, Rinse Cautiously with Water for Several Minutes.

If Easy To Do, Remove Contact Lenses Continue Rinsing

P337+P313 - If Eye Irritation Persists, Get Medical Advice / Attention.

Other Hazards: None

Ingredients with Unknown Acute Toxicity: None

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#### SECTION 3: HAZARDOUS INGREDIENTS:

Chemical characterization: Non-hazardous. This product does not meet the definition of a hazardous material given in 29 CFR Part 1910.1200 (OSHA).

#### Component Disclosure:

Ingredient (s):	CAS Number :	<u>%</u>	OSHA / PEL :	ACGIH / TLV :	Other Limits:
Urea	57-13-6	96-98	NE	NE	NE
Urea Reaction Products w/ Formaldehyde	68611-64-3	< 3	NE	NE	NE
Imidodicarbonic diamide ( bluret)	108-19-0	-1	NE	NE	NE

NOTE: Approximate percentages - Exact percentages and identities are withhold as trade secrets.

#### **SECTION 4: FIRST AID MEASURES**

Description of Necessary Measures: No acute or chronic hazards known.

After Inhalation: Move to fresh air. Excessive product is considered a nuisance dust. Unusual dust concentrations may cause unpleasant deposit or irritation in the nasal and throat passages. May aggravate pre-existing respiratory conditions or allergies. Consult a doctor if adverse conditions persist.

After Skin Contact: May cause skin irritation due to drying effect of product. Under normal conditions, non-irritating to skin and no adverse effects are expected. As a usual hygiene work practice, wash with plenty of soap and water after use. Rub dry or irritated skin with a quality skin conditioning lotion. If any skin irritation or rash persists, seek medical attention.

After Eye Contact: Dust may irritate eyes, resulting in redness or watering. Prolonged exposure may cause mild irritation to the eye tissue if not removed. In case of extreme contact, immediately flush eyes with large quantities of warm running water for 15 minutes, lifting upper and lower lids occasionally. If easy to do, remove contact lenses. Continue water rinsing. If eye irritation persists, seek medical attention.

After Ingestion: Not a normal route of entry. May cause gastrointestinal upset. Do Not induce vomiting. May cause digestive tract irritation, with accompanying nausea, vomiting, and diarrhea. If tolerated, allow an adult to drink mouth with 1 cup of milk or water (½ cup for children) to rinse the mouth and throat; dilute the stomach contents; and minimize irritation. If adverse conditions persist, seek medical attention. Never give anything by mouth if victim is conscious, rapidly losing consciousness, or is convulsing.

#### **SECTION 5: FIRE FIGHTING MEASURES:**

Flashpoint ( °F, °C, PMCC): NA; (Closed Cup) NA -- Non Flammable; Material will not burn.

Suitable Extinquishing Media: Water, Dry Chemical, Foam, Carbon Dioxide, Halon. Use extinguishing media suitable for surrounding areas.

Unsuitable Extinquishing Media: None Flammable Limits: NA LEL: NA UEL: NA

Flammability: Does not readily burn or explode from an open flame; or sparks, shocks, heat, oxidizing materials, combustible & organic materials, metals, acids, alkalis, or moisture. Undergoes thermal decomposition at elevated temperatures to produce solid cyanuric acid and release toxic and combustible gases.

Combustible By-Products: Ammonia, Carbon Dioxide, & Oxides of Nitrogen. Flammable / toxic gases will form at elevated temperatures by thermal decomposition. When exposed to heat, ammonia is released.

Special Protective Equipment for Fire Fighters: If fumes or gases are present, fire fighters should wear full protective equipment, including a NIOSH approved, self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or other positive pressure mode; and turn-out equipment when fighting fires.

Unusual Fire & Explosion Hazards: May be explosive when mixed with hypochlorites due to the formation of nitrogen trichloride which explodes spontaneously in air.

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# ENVIROMELT PLUS Ice / Snow Melt PELLETIZED - BETTER THAN FLAKES / POWDERS UREA-BASED - CONTAINS NO CHLORIDES (SALTS)

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#### SECTION 6: ACCIDENTIAL RELEASE MEASURES

Leak and Spill Procedure: (Small Spills) Sweep and collect excess solid product in a suitable, labeled container for intended reuse or disposal. Flush remaining product from spill with water to clean up residue. Recover remaining slurry. Flush with water again.

Precautions To Be Taken in Handling & Storing: Maintain good housekeeping practices to minimize accumulation of settled dust, especially

on overhead surfaces . Avoid breathing dust . Protect from freezing . Product shelf life is best retained by storing at 45 -100 ° F . **Environmental Precautions :** (Large Spills) If possible , prevent additional discharge of material without hazard . Make best efforts to prevent entry into sewers and public waters. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right-To-Know Act of 1968 and of 40 CFR Part 372 . Product may promote excessive algae growth which may degrade water quality and taste . Notify downstream water users . Recover and place excessive spill in suitable, labeled containers for recycle, reuse, or disposal .

#### **SECTION 7: HANDLING & STORAGE REQUIREMENTS**

#### KEEP OUT OF REACH OF CHILDREN

Precautions for Safe Handling: Read product literature, label, and SDS before use. Use product strictly according to label directions. Wash hands and other exposed areas with soap and water before eating, drinking, smoking; or when leaving work. If excessive dust, fumes, or mist are generated in storage area, use adequate ventilation to keep exposure to airborne contamination below the exposure limit. Avoid personal contamination after a spill.

Hygiene Measures: Wash hands and forearms thoroughly after handling. Launder soiled, contaminated clothing before re-use.

Safe Storage Conditions: Store in a cool, dry, ventilated area. Keep in original container in a cool, well-ventilated place away from open flames. Keep container closed when not in use.

Incompatible Products: Reducing agents / Hypochlorites.

Incompatible Circumstances: Do Not blend or store in contact with ammonium nitrate .Dry urea and dry ammonium nitrate will react together to produce a slurry .

#### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Airborne Exposure Limits:

AIHA Workplace Environmental Exposure Limits: 10 mg/m3 TWA for Urea as inhalable dust.

OSHA PEL: 15 mg/m3 for Particulates not otherwise regulated.

Workplace Control Parameters: No Additional Information Is Available

Local Exhaust: In a confined area — Use a system of process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### **Exposure Controls:**

Personal Protective Equipment : Avoid unnecessary exposure

Hand protection: For relatively small quantities, may not be necessary but good practice to wear chemical –resistant gloves. Otherwise, for extreme quantities wear long sleeved clothing and work gloves.

Eye Protection: Chemical goggles or safety glasses with side shields. Maintain eye wash station in work area.

Respiratory Protection: For relatively small quantities, may not be necessary but good practice for extreme quantities is to wear appropriate NIOSH approved nuisance dust mask. When ventilation is inadequate, always wear the appropriate respirator – a NIOSH approved full facepiece or half mask dust respirator with N-100 or P-100 filters should be used under conditions where airborne concentrations may exceed occupational exposure limits. For U.S. facilities, a respiratory protection protection that meets OSHA 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

Work / Hygienic Practices: Wash contaminated clothing before re-use.

Other Information: Do Not eat, drink, or smoke during use

Federal , State, or Local Exposure Limits may vary by jurisdiction . Consult local authorities for acceptable exposure limits in your area .

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#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Granular at various sizes

pH (10% Solution in Water):8

Taste: Saline

Freezing Point: < 32 °F, < 0 °C

Dispersion Properties: See solubility in water, methanol, and diethyl ether.

Specific Gravity, g / cc (Water = 1): 0.74

Relative Evaporation Rate: NA

Molecular Weight: 60.06

Color: White

Boiling Point: Decomposes at 135 °C

Critical Temperature: Undetermined Vapor Density: NA Bulk Density (kg/m3; lbs/ft.3): Loose: -721-770 kg/m3(-45-48 lbs./ft.3) // Tapped: -800 -809 kg/m3(-49-51 lbs./ft.3)

Relative Density: NA. Solubility in Water: Easily soluble in Hot Water. Soluble in Cold Water. Partially soluble in methanol, diethyl ether. Insoluble in n-octanol.

Water/Oil Dist. Coeff.: Soluble in water.

Odor: Odorless to slightly ammoniacal.

Odor Threshold: 17 PPM as ammonia Melting Point: 270.9 °F (132.7 °C)

Vapor Pressure: 0.08 k Pa

#### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity: None-reactive with combustible materials, organic materials, and most metals.

Special remarks on Reactivity: Absorbs moisture from the air. Hygroscopic - Keep Container Tightly Closed.

Chemical stability: Stable under Normal Conditions Possibility of Hazardous Reactions: Undetermined

Conditions to Avoid: No additional Remarks Incompatible Materials: Reactive with Halogens. Slightly reactive with oxidizing agents, reducing agents, acids, alkalis, and moisture.

Fumes Hazardous Polymerization: Should not occur

Corrosivity: Corrosive to mild steel. Slightly corrosive to aluminum, zinc, or copper. Non-corrosive to glass, 304 or 316 stainless steel.

Special Remarks on Corrosivity: Avoid contact with moisture. Slow hydrolysis may produce acids corrosive to metals. Check on compatibility with any metal equipment.

Hazardous Decomposition By-products: Ammonia, Carbon Dioxide, & Oxides of Nitrogen. Flammable / toxic gases will form at elevated temperatures by thermal decomposition . When exposed to heat, ammonia is released .

#### SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects: Any hazards associated with this finished product are listed in SECTION 2 of this SDS. This product is not regarded as a mutagen or carcinogen, and there is low concern for reproductive, developmental, or nervous system toxic effects. Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact, Ingestion.

Inhalation: Irritating to the respiratory tract, if inhaled .Nuisance dust is 10 mg/ m3 of total dust . If an allergic reaction does occur, move individual to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately. Skin Contact: May be irritating with prolonged contact. In extreme cases, if "Redness" or Sensitization occurs through direct skin contact, seek the attention of a physician immediately

Eye Contact: Irritating Effect May Occur Through Direct Contact. In extreme cases, if "redness" and watering of eyes persists, seek the attention of a physician immediately.

Ingestion: Not anticipated route of exposure. May cause gastric irritation if ingested in large quantities.

Symptoms Related to the Physical, Chemical, and Toxilogical Characteristics: None known

#### Acute Toxicity, Toxicological (see table below)

Measures of Toxicity by Ingredients: The following Acute Toxicity Estimates (ATE) are calculated on this GHS document. Toxicological Data of complete product are not available. No classification on the basis of the calculation procedure of the preparation directive. Data not available or is insufficient for classification. The toxicity data listed pertaining to the ingredients are intended for those working in the medical professions, experts for occupational health and safety, and toxicologists . The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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#### **TOXICOLOGICAL INFORMATION Continued:**

Testing Results: Urea 46-0-0

Acute Toxicity: Under extreme, prolonged exposure to the product, may cause skin, eye, and respiratory irritation.

Skin Corrosion / Irritation: Under extreme, prolonged exposure to the product, may cause skin irritation

Skin Sensitization: Not classified, except for personal allergic reactions.

Serious Eye Damage / Irritation: Under extreme, prolonged exposure to the product, may cause eye irritation.

Respiratory Sensitization: Under normal conditions, this product is not classified as allergenic by inhalation or skin contact.

Extreme, prolonged exposure to the product at concentrate above the conventional exposure limits may cause respiratory tract and lung sensitization

Acute Effects from Overexposure: No significant hazard in animal toxicity tests.

Specific Target Organ Toxicity (Single Exposure): Not Classified

Specific Target Organ Toxicity (Repeated Exposure): Not Classified

Potential Acute Health Effects: Not considered to be toxic for humans under normal conditions of use. However, in keeping with good industrial hygiene practices, exposure to any chemical should be kept to a minimum . This product may cause irritation to the eyes and skin due to excessive contact. Very low toxicity for humans or animals under normal conditions of careful, responsible use. Urea is used in small quantities as a feed supplement for livestock. Urea ingestion may be harmful to wildlife, livestock, and birds at body burdens of several thousands of mg/kg if ingested without adequate mixing. Clean up all spilled material, especially where bulk fertilizer loading of equipment occurs to prevent animal overexposure. If used for the manufacture of feeds, mix thoroughly by making a pre-blend with one of the ingredients, then adding and mixing the pre-blend with all other ingredients. Equivalent protein from Urea should not exceed one-third of the protein in the mixture .

Other Effects on Humans: No additional information

Special Remarks on Other Effects on Humans: May cause irritation of the mucous membranes and upper respiratory tract.

Potential Chronic Health Effects: There is no known effect from chronic exposure to this product. Urea is approved as a food and cosmetic additive; is an ingredient in clinical preparations; and is a normal human metabolite found in urine.

Chronic Effects from Overexposure: Pulverized Urea is considered an inert dust which is not toxic to the lungs when exposures are

properly controlled. No adverse human effects are known.

Special Remarks on Chronic Effects on Humans: No Effects. Carcinogenic Effects: None by ACGIH, EPA, IARC, OSHA Mutagenic Effects: None by ACGIH, EPA, IARC, OSHA Teratogenic Effects: None by ACGIH, EPA, IARC, OSHA

Reproductive Toxicity: Not Classified

	Standard :	Species :	Result :
Urea ( cas # 57-13 – 6 )	Acute Oral Toxicity	Rat	14,300 mg/kg
	Acute Oral Toxicity	Mouse	11,500 mg/kg
	Acute Oral Toxicity	Cattle	510 mg/kg
	Chronic Oral Toxicity	Rat	NOAEL : 2,250 mg/kg
	Chronic Oral Toxicity	Mouse	NOAEL : 6,750 mg/kg



# **ENVIROMELT PLUS Ice / Snow Melt** PELLETIZED - BETTER THAN FLAKES / POWDERS

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#### **SECTION 12: ECOLOGICAL INFORMATION**

Environmental Data: Contains no ingredients known to be hazardous to the environment. Biodegradation in soil. Inherently biodegradable.

Exotoxicity: Will slowly release ammonia and degrade to nitrate. Ammonia is a toxic hazard to fish. However, ammonia release is slow making urea much less toxic than ammonium salts . Aquatic toxicity tests indicate 24 hr. exposure at 16,000 mg/L of urea did not kill Creek Chubs .Urea is added in small quantities as a feed supplement for cattle. Urea ingestion may be harmful to mammals and birds at body burdens of several thousand of mg/kg. Ensure that livestock and wildlife do not ingest urea unless adequately mixed with feed rations. Non-persistent. Non-cumulative when applied using normal agricultural practices. The product itself and its products of degradation are not harmful under normal conditions of careful and responsible use . U.S. DOT: This material is not listed as a Marine pollutant .

BOD and COD: Not Available

Products of Degradation: Ammonia, Carbon Dioxide, and Water

Toxicity of the Products of Degradation: The product itself and its products of degradation are not harmful under normal conditions of use. Avoid spills or releases to water courses .

Special Remarks on the Products of Degradation: Urea will promote algae growth which may degrade water quality and taste. Notify downstream water users. Will dissolve and disperse in water. Reclaiming material may not be viable .

	Standard :	Species :	Result:	Exposure:
Urea ( cas # 57-13 – 6 )	Acute toxicity LC50	Fish Barillius Barna	>9,100 mg/L	96 hr.
	Acute toxicity EC50	Invertebrates Daphnia	>10,000 mg/L	24 hr.
	LDLo	Birds, Pigeon	=16,000 mg/kg subcutaneous	NA
	Toxicity to Algae	Scenedesmus quadricauda , cell multiplication inhibition	>10,000 mg/L	192 hr ( TT )

ECOTOXICITY: NE (Not Established) Aquatic Toxicity: .....NE Terrestial Toxicity: .....NE Mobility in Soil: .....NE

OTHER ADVERSE EFFECTS:



#### **ENVIROMELT PLUS Ice / Snow Melt**

### UREA-BASED - CONTAINS NO CHLORIDES (SALTS)

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Recommendations: Dispose in safe manner in accordance with local / state/federal regulations.

Dispose of contents / container in accordance with local/regional/national/international regulations . Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities while adhering to the necessary regulations .

Ecology - Waste Materials: Avoid release into environment.

Recommended Cleansing Agents: Sweep Clean. Rinse with Water Only

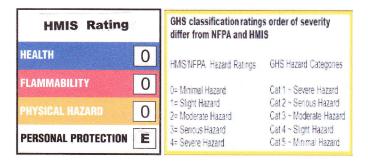
#### **SECTION 14: TRANSPORT INFORMATION**

UN Number ( DOT, IMDG, IATA )	Non - hazardous
UN Proper Shipping Name ( DOT, IMDG, IATA )	.Powder , Super – Absorbency
Transport Hazard Class(es) ( DOT, IMDG, IATA )	.Not Regulated
Packing Group ( DOT, IMDG, IATA )	.Not Regulated
Environmental Hazards: Marine Pollutant (Yes/No)	NO
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not Applicable
Special Precautions for User:	Not Applicable

#### SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations :	No Additional Information Available
US-EPA ( Environmental Protection Agency )	
TSCA (Toxic Substances Control Act): Ingredients of this product ar	e on the Inventory list.
OSHA Hazard Communication Standard, 29 CFR 1910.1200: None	of the Ingredients are listed .In extreme , larger quantities, nuisance dust .
SARA Title III (Superfund Amendments and Reauthorization Act):	
CERCLA (Comprehensive Environmental Response Compensation	n and Liability Act): No Reportable Quantity
International Regulations :	

# SECTION 16: OTHER INFORMATION



IARC (International Agency for Research on Cancer): None of the Ingredients are listed.

DISCLAIMER: This document is intended to provide a brief summary of our present knowledge and guidance regarding the use of this material. The information set forth herein has been compiled from sources to be dependable and is believed to be accurate as of the date of issuance. This information is offered in good faith by HEALTHY CLEAN BUILDINGS and no warranty, expressed or implied, is made. The user assumes all liability for any damage or injury resulting from misuse, from any failure to adhere to recommended practices according to product label ( and such ), or from any hazards inherent in the nature of the product. This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contracted relationship.

Footnotes: CALC-Calculated; COR-Corrosive; CS-Cancer Suspect Agent; EST-Estimated; HMIS-Hazardous Material Identification System; NA-Not Applicable; ND-No Data; NE – Data Not Established; OX- Oxidizer; PEL-Permissible Exposure Limit; PPI-Personal Protection Index; STEL-Short Time Exposure Limit; TLV-Threshold Limit Value; TS-Trade Secret; TWA-Time Weighted Average

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