





**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 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 :**

<u>Ingredient (s) :</u>	<u>CAS Number :</u>	<u>%</u>	<u>OSHA / PEL :</u>	<u>ACGIH / TLV :</u>	<u>Other Limits :</u>
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 Extinguishing Media :** Water, Dry Chemical , Foam, Carbon Dioxide , Halon . Use extinguishing media suitable for surrounding areas .

**Unsuitable Extinguishing 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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## SECTION 6 : ACCIDENTAL 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/m<sup>3</sup> TWA for Urea as inhalable dust .

OSHA PEL : 15 mg/m<sup>3</sup> 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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**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

	<u>Standard :</u>	<u>Species :</u>	<u>Result :</u>
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



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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 .

	<u>Standard :</u>	<u>Species :</u>	<u>Result :</u>	<u>Exposure :</u>
<b>Urea</b> ( 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  
**Terrestrial Toxicity :** .....NE  
**Mobility in Soil :** .....NE

**OTHER ADVERSE EFFECTS :**

**Effect on Ozone Layer** ..... No Additional Information Available  
**Effect on Global Warming :** ..... No Additional Information Available



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**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 ) ..... None of the Ingredients are Listed  
 TSCA (Toxic Substances Control Act): Ingredients of this product are 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): No listed ingredient  
 CERCLA (Comprehensive Environmental Response Compensation and Liability Act): No Reportable Quantity .  
 International Regulations :  
 IARC ( International Agency for Research on Cancer ) : None of the Ingredients are listed .  
 CANADA , EU-REGULATIONS ..... No Additional Information Available

**SECTION 16 : OTHER INFORMATION**

HMIS Rating		GHS classification ratings order of severity differ from NFPA and HMIS	
HEALTH	0	HMIS/NFPA Hazard Ratings	GHS Hazard Categories
FLAMMABILITY	0	0= Minimal Hazard	Cat 1 - Severe Hazard
PHYSICAL HAZARD	0	1= Slight Hazard	Cat 2 - Serious Hazard
PERSONAL PROTECTION	E	2= Moderate Hazard	Cat 3 - Moderate Hazard
		3= Serious Hazard	Cat 4 - Slight Hazard
		4= Severe Hazard	Cat 5 - Minimal Hazard

**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 **ENVIROMELT PLUS** page 7