

Twin Pro Industrial Safety Data Sheet

1.) IDENTIFICATION:

Product Name: Ice Blast
Other Means of Identification: None
Product Use and restrictions on use: Ice Melter
Initial Supplier Identifier: Twin Industrial Holdings Ltd.
O/A Twin Pro Industrial
3203 Giffen Road North
Lethbridge, AB
T1H 0E8
403-329-4878
Prepared by Twin Pro Industrial
Emergency Phone CANUTEC at 1-613-996-6666

2.) HAZARDS IDENTIFICATION

While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

GHS-Classification
Not Classified

Signal Word
No signal word

Hazard Statements
No known significant effects or critical hazards

Pictograms
None

Precautionary Statements
P101 – If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P103 – Read label before use.

3.) COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight %</u>	<u>Unique Identifiers</u>
Carbamide	57-13-6	>98%	Not Available
Carbamide, reaction products with formaldehyde	68611-64-3	<1.25%	Not Available
Biuret	108-19-0	<1%	Not Available

4.) FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin Contact: No known effect after skin contact. Rinse with water for a few minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Seek medical attention if symptoms occur.

Eye Contact: May cause irritation due to mechanical action. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if safe to do so. Seek medical attention if irritation occurs.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

5.) FIRE – FIGHTING MEASURES

Suitable Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media: None known

Specific Hazards Arising From The Chemical: Not considered to be flammable. No specific fire or explosion hazard.

Special Protective Equipment For Fire-Fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a bull face-piece operated in positive pressure mode.

Further Information: Incompatible with halogens. If mixed with chlorine or hypochlorites, it may form nitrogen trichloride which may explode spontaneously in air.

6.) ACCIDENTAL RELEASE MEASURES

Personal Precautions/ Protective Equipment/ Emergency Procedures: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollutions (sewers, waterways, soil or air).

Methods and Material For Containment and Cleaning Up Small Spills: Move containers from spill area. Recover the material and use it for the intended purpose or vacuum or sweep up material and place in a designated, labeled waste container. Large Spills: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Collect pillage. Recover the material and use it for the intended purpose.

7.) HANDLING AND STORAGE

Precautions for Safe Handling: Put on appropriate personal protective equipment. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for Safe Storage: Store in a dry location. Product may absorb moisture on long-term storage under high humidity conditions. Store away from incompatible materials.

8.) EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Limit(s)</u>			
<u>Component</u>	<u>Regulation</u>	<u>Type of Listing</u>	<u>Value</u>
Carbamide	AIHA	WEEL	10 mg/m ³ 8 hours
Carbamide, reaction products with formaldehyde	None assigned		
Biuret	None assigned		

Engineering Control(s)

Ventilation Requirements: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Other: Not Available

Protective Equipment

Eyes/Face

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: sealed eyewear.

Hand Protection:

The personal protective equipment required varies, depending upon your risk assessment. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Skin and Body Protection:

No special protective clothing is required.

Respiratory Protection:

Use a proper fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal Hazards

Not Available

9.) PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Solid (Granular solid)
Color	White
Odor	Characteristic
Odor Threshold	Not Available

Property

pH	7.2 @ 10% solution
Melting Point/Freezing Point	133°C (271.4°F)
Flash Point	Product does not sustain combustion
Evaporation Rate	Not Available
Flammability	Non-flammable substance. Non-combustible
Upper Flammable Limit	Not Available
Lower Flammable Limit	Not Available
Vapor Pressure (mm Hg, 20°C)	0.08 kPa (0.6 mm Hg) [room temperature]
Vapor Density (Air=1)	Not Available
Relative Density	1.33
Solubility(ies)	Easily soluble in the following materials: cold water and hot water
Partition Coefficient: n-octanol/water	-1.59
Auto-ignition Temperature	Not applicable
Decomposition Temperature	135°C (275°F)
Viscosity	Not Available

10.) STABILITY AND REACTIVITY

Reactivity	Incompatible with halogens, hydrogen peroxide, chlorinated hydrocarbons, fluorine, nitric acid, oxidizing agents and sulfuric acid.
Stability	The product is stable
Possibility of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	Avoid High Temperature. Product absorbs moisture on long-term storage under high humidity conditions.
Incompatible Materials	Incompatible with halogens, hydrogen peroxide, chlorinated hydrocarbons, fluorine, nitric acid, oxidizing agents and sulfuric acid.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11.) TOXICOLOGICAL PROPERTIES

Acute Toxicity

Product	Oral LD50	Dermal LD50	LC50
Ice Blast	11 g/kg (male mouse) 8471 mg/kg (male rat) 14300 mg/kg (male rat)		

Summary: Non-hazardous substance

Chronic Toxicity – Carcinogenicity

Product	IARC
Ice Blast	No known significant effects or critical hazards

Skin Corrosion/Irritation

Non-irritating to the skin

Ingestion

Inhalation

Non-sensitizer to lungs

Serious eye Damage/Irritation

Non-irritating to the eyes

Germ cell Mutagenicity

No known significant effects or critical hazards

Reproductive Toxicity

No known significant effects or critical hazards

STOT – Single Exposure

No known significant effects or critical hazards

STOT – Repeated Exposure

No known significant effects or critical hazards

Aspiration Hazard

No known significant effects or critical hazards

Synergistic Materials

No known significant effects or critical hazards

12.) ECOLOGICAL INFORMATION

Exotoxicity

Product	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Ice Blast	Not Available	Colisa fasciata (fingerling) 5000 µg/L fresh water, 96 hr Oreochromis massambicus - young 22500 mg/L fresh water, 96 hr Heteropneustes fossilis, Chronic NOEC 2 g/L fresh water, 30 days	Daphnia magna (neonate) 3910000 µg/L fresh water, 48 hrs Crustaceans – cerodaphnia dubia neonate, 6573.1 mg/L fresh water, 48 hr

Summary: Practically non-toxic to aquatic organisms

Biodegradability

Readily biodegradable

Bioaccumulation

<-1.73 LogP_{ow}

Mobility

0.037 (K_{oc})

Other information:

No known significant effects or critical hazards

13.) DISPOSAL CONSIDERATIONS

Waste From Residues/ Unused Product:	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging:	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act

14.) TRANSPORT INFORMATION

UN:	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packing Group	Not Regulated
Environmental Hazards	None known
Special Precautions	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in Bulk	Not Available

TDG

Other: Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

15.) REGULATORY INFORMATION

Note: The product listed on this SDS has been classified in accordance with the hazard criteria of the controlled products Regulations. This SDS contains all the information required by those regulation.

16.) PREPARATION AND OTHER INFORMATION

Preparation Date: Feb 2, 2017
Revised Date: Feb 2, 2017

**USE THIS NUMBER IN CASE OF DANGEROUS GOODS EMERGENCY:
CANUTEC (613) 996-6666**

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

Twin Industrial Holdings Ltd. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheets(s) to all affected employees, customers and end –users.
