



Howard Johnson's Enterprises

MATERIAL SAFETY DATA SHEET

Zero Ice® Pet-Guard® Ice and Snow Melter

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Section 1: Product Identification

Product Name: Zero Ice® Pet-Guard®

EPA Reg. Number: Not Applicable

Chemical Name: Carbamide

Shipping Information: Not Regulated by U.S. DOT for all modes of transportation within the US.

Section 2: Composition/Information on Ingredients

| <u>Chemical Name</u> | <u>CAS Registry Number</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>SARA 313 Reportable</u> |
|----------------------|----------------------------|-----------------|------------------|----------------------------|
| Urea | 57-13-6 | None | None | No |

Section 3: Physical and Chemical Properties

Physical Form: Granular Solid Bulk Density: None established

pH: Not Applicable Refractive Index: Not Applicable

Boiling Point: Not Applicable Freezing Point: Not Applicable

Solubility in Water: Completely Soluble Viscosity: Free-flowing granules

Vapor Pressure: Not Determined Vapor Density: Not Determined

Percent Volatile: Not Determined Evaporation Rate: Not Determined

Appearance and Odor: White to off-white granules or flakes, odorless.



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Section 4: Fire and Explosion Hazard Data

| | | | |
|------------------------------------|---------------------------------------------|--------------------|----------------|
| Flash Point (°F): | Not Flammable | Flash Point Method | Not Applicable |
| Auto ignition Temp. (°F): | Not Applicable | Burning Rate | Not Applicable |
| Explosive Upper Limit (UEL): | Not Applicable | Lower Limit (LEL): | Not Applicable |
| Limits: | | | |
| Extinguishing Media: | Water, Carbon Dioxide, Dry Chemical or Foam | | |
| Special Firefighting Procedures: | None | | |
| Unusual Fire or Explosion Hazards: | None | | |

Section 5: Health Hazard Data

Primary Routes of Entry: Inhalation, ingestion, skin contact

Signs and Symptoms of Over-Exposure:

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|---------------|--------------------------------------------------------------------------------------------|------------------------|
| Eye Contact: | Acute: Mild, reversible irritation to the eye. May cause transient corneal injury. | Chronic: None reported |
| Skin Contact: | Acute: May cause slight irritation on prolonged contact. | Chronic: None reported |
| Inhalation: | Acute: Excessive inhalation of dust may irritate nose, throat and upper respiratory tract. | Chronic: None reported |
| Ingestion: | Acute: Ingestion may cause irritation of the gastro-intestinal tract, nausea and vomiting | Chronic: None reported |

Emergency First Aid Procedures:

| | |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact: | Wash eye immediately. Hold eyelids open and flush with lots of water for 15 minutes. Seek medical attention if irritation persists. |
| Skin Contact: | Wash skin with soap and water. |
| Inhalation: | Remove person to fresh air. |
| Ingestion: | Give person large quantities of water to drink. Do not induce vomiting. Seek medical attention. |

Medical conditions aggravated by exposure: Existing skin irritation, cuts or scrapes may be aggravated by contact.

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Target Organs: None Identified

Section 6: Reactivity Data

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|-----------------------------------|------------------------------------------|
| Stability: | Stable |
| Chemical incompatibilities: | Solution may be corrosive to some metals |
| Conditions to avoid: | None |
| Hazardous Decomposition Products: | Hydrogen Chloride may form when heated |
| Hazardous Polymerization: | Will not occur |

Section 7: Accidental Release Procedures

| | |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Large Spill or Leak Procedures: | No special precautions needed. Sweep or scoop up spilled material and place in a closed, labeled container for use. |
| Small Spill or Leak Procedures: | Sweep up spilled material for use as label directs. |
| Waste Disposal Methods: | Consult state or local environmental agency for disposal of waste. This product is normally not a regulated waste. |

Section 8: Exposure Controls and Personal Protection

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engineering Controls – Ventilation: | This product is designed for outdoor use – ventilation is not normally required. Local exhaust may be needed when handling this product in an enclosed area. |
| Administrative Controls: | Follow all precautions and directions for use on product label. |
| Protective Clothing and Equipment: | Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. |
| Respiratory Protection: | For normal handling and use, a respirator is not required. For excessively dusty conditions, use a dust mask approved by MSHA/NIOSH. See OSHA regulations in 29 CFR § 1910.134 before using any respirator or dust mask. |
| Eye Protection: | Good safety practices suggest the use of goggles to prevent contact with eyes. |
| Hand Protection: | Good safety practices suggest the use of rubber, leather, or canvas gloves, to prevent skin contact. |
| Skin Protection: | Wear long-sleeved shirt and long trousers to reduce skin contact. |
| Safety Stations: | Clean water should be available to flush eyes and/or skin in case of accidental contact. |

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Section 9: Handling and Storage Precautions

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| Handling Precautions: | Do not take internally. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. |
| Storage Requirements: | Store in a dry area, away from feed or food, and out of reach of children, pets and domestic animals. Keep containers tightly closed when not in use. |

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By: Director of Regulatory Affairs

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