Section 1: Identification

Product identifier

Product Name • **Safe-T-Pet**

Synonyms • Urea

Product Code • 6600

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Ice Melt

Details of the supplier of the safety data sheet

Manufacturer • Morton Salt, Inc.
444 W. Lake St.
Chicago, IL 60606
United States
https://www.mortonsalt.com

Telephone (General) • 312-807-2000

Emergency telephone number

Manufacturer • 312-807-2000

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Skin Irritation 2
Eye Irritation 2

Label elements

OSHA HCS 2012

WARNING

Hazard statements • Causes skin irritation
Causes serious eye irritation

Precautionary statements

Prevention • Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • If on skin: Wash with plenty of water.
Take off contaminated clothing and wash before reuse.
Specific treatment, see supplemental first aid information.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Other hazards

OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS 2015

Classification of the substance or mixture

WHMIS 2015 • Skin Irritation 2
Eye Irritation 2

Label elements

WHMIS 2015

WARNING

Hazard statements • Causes skin irritation
Causes serious eye irritation

Precautionary statements

Prevention • Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • IF ON SKIN: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
Specific treatment, see supplemental first aid information.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Other hazards

WHMIS 2015 • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

Substances

• Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Urea	**CAS:**57-13-6	97.305% TO 99.69003%	Ingestion/Oral-Rat LD50 • 8471 mg/kg	**OSHA HCS 2012:** Skin Irrit. 2 **WHMIS 2015:** Skin Irrit. 2	NDA
Methylenediurea	NDA	0% TO 2.419758%	NDA	**OSHA HCS 2012:** Not Classified **WHMIS 2015:** Not Classified	NDA
Biuret	**CAS:**108-19-0	0% TO 1.49985%	NDA	**OSHA HCS 2012:** Not Classified **WHMIS 2015:** Not Classified	NDA
Propylene glycol	**CAS:**57-55-6	0% TO 0.2%	NDA	**OSHA HCS 2012:** Skin Irrit. 2; Eye Irrit. 2B **WHMIS 2015:** Skin Irrit. 2; Eye Irrit. 2	NDA

Dye	NDA	0.01%	NDA	**OSHA HCS 2012:** Exposure limit	NDA

Section 4: First-Aid Measures

Description of first aid measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

Skin
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.

Eye
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation occurs: Get medical advice/attention.

Ingestion
- Rinse mouth. If large quantities are swallowed, call a physician immediately.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media
- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
  LARGE FIRE: Water spray, fog or regular foam.

Unsuitable Extinguishing Media
- No data available

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Some may burn but none ignite readily.

Hazardous Combustion Products
- No data available

Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
  Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
  Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Use only with adequate ventilation. Do not walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures
- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stay upwind. Keep out of low areas. Keep unauthorized personnel away.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Stop leak if you can do it without risk.
  Carefully shovel or sweep up spilled material and place in suitable container.

Section 7 - Handling and Storage

Precautions for safe handling

Handling
- Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid dust inhalation. Avoid contact with eyes. Avoid repeated or prolonged contact with the skin or clothing. Contact lenses should not be worn. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage
- Store in a well-ventilated place. Keep container tightly closed.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines			
	Result	**Canada Ontario**	**China**
Propylene glycol (57-55-6)	TWAs	10 mg/m3 TWA (for assessing the visibility in a work environment where 1,2-Propylene glycol aerosol is present, aerosol only); 50 ppm TWA (aerosol and vapor); 155 mg/m3 TWA (aerosol and vapor)	Not established
Urea (57-13-6)	STELs	Not established	10 mg/m3 STEL
	TWAs	Not established	5 mg/m3 TWA

Exposure controls

Engineering Measures/Controls
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory
- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face
- Wear safety goggles.

Skin/Body
- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Blue solid, spherical or granular shape with slight ammonia odor.

Color	Blue	Odor	Slight ammonia.
Odor Threshold	No data available		
General Properties			
Boiling Point	275 °C(527 °F)	Melting Point/Freezing Point	271 °F(132.7778 °C)
Decomposition Temperature	No data available	pH	7.2 at 100 g/L
Specific Gravity/Relative Density	No data available	Water Solubility	Appreciable 10 to 99 %
Viscosity	No data available		
Volatility			
Vapor Pressure	80 hPa @ 20 °C(68 °F)	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Extreme heat.

Incompatible materials

- Avoid contact with strong oxidizers, acids or bases. Avoid contact with Nitrates. Reacts with Sodium or Calcium Hypochlorite to form explosive Nitrogen Trichloride. Avoid contact with hypochlorites.

Hazardous decomposition products

- Decomposes to Ammonia, Biuret, Nitrogen Oxides, Carbon Oxides. May react with hypochlorites to form the explosive nitrogen trichloride.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Urea (97.305% TO 99.69003%)	57-13-6	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 8471 mg/kg; **Irritation:** Skin-Human • 20 % 24 Hour(s) • Moderate irritation; **Mutagen:** DNA damage • Unreported Route-Human • Liver (Somatic cell) • 31.6 µmol/L 48 Hour(s); **Reproductive:** Intraplacental-Woman TDLo • 1400 mg/kg (16W preg); *Reproductive Effects:Effects on Fertility*:**Abortion**; **Tumorigen / Carcinogen:** Ingestion/Oral-Rat TDLo • 821 g/kg 1 Year(s)-Continuous; *Tumorigenic*:**Neoplastic by RTECS criteria**; *Blood*:**Tumors**; *Blood*:**Lymphoma, including Hodgkin's disease**
Propylene glycol (0% TO 0.2%)	57-55-6	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 20 g/kg; Skin-Rabbit LD50 • 20800 mg/kg; **Irritation:** Eye-Rabbit • 100 mg • Mild irritation; Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Skin-Human • 104 mg 3 Day(s)-Intermittent • Moderate irritation; Skin-Human • 500 mg 7 Day(s) • Mild irritation; **Multi-dose Toxicity:** Ingestion/Oral-Dog TDLo • 3650 mg/kg 2 Year(s)-Intermittent; *Blood*:**Normocytic anemia**; *Blood*:**Other hemolysis with or without anemia**; Skin-Human TDLo • 5 mg/kg 7 Day(s)-Intermittent; *Skin and Appendages:After topical exposure*:**Primary irritation**; Skin-Man TDLo • 0.03 mL/kg 22 Day(s)-Intermittent; *Skin and Appendages:After topical exposure*:**Cutaneous sensitization (experimental)**

GHS Properties	Classification
Acute toxicity	**OSHA HCS 2012**•No data available **WHMIS 2015**•No data available
Skin corrosion/Irritation	**OSHA HCS 2012**•Skin Irritation 2 **WHMIS 2015**•Skin Irritation 2
Serious eye damage/Irritation	**OSHA HCS 2012**•Eye Irritation 2 **WHMIS 2015**•Eye Irritation 2
Skin sensitization	**OSHA HCS 2012**•No data available **WHMIS 2015**•No data available
Respiratory sensitization	**OSHA HCS 2012**•No data available **WHMIS 2015**•No data available
Aspiration Hazard	**OSHA HCS 2012**•No data available **WHMIS 2015**•No data available
Carcinogenicity	**OSHA HCS 2012**•No data available **WHMIS 2015**•No data available
Germ Cell Mutagenicity	**OSHA HCS 2012**•No data available **WHMIS 2015**•No data available
Toxicity for Reproduction	**OSHA HCS 2012**•No data available **WHMIS 2015**•No data available
STOT-SE	**OSHA HCS 2012**•No data available **WHMIS 2015**•No data available
STOT-RE	**OSHA HCS 2012**•No data available **WHMIS 2015**•No data available

Potential Health Effects

Inhalation

Acute (Immediate)
- Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)
- No data available

Skin

Acute (Immediate)
- Causes skin irritation.

Chronic (Delayed)
- No data available

Eye

Acute (Immediate)
- Causes serious eye irritation.

Chronic (Delayed)
- No data available

Ingestion

Acute (Immediate)
- Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

Chronic (Delayed)
- No data available

Key to abbreviations

LD = Lethal Dose
TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

- Material data lacking.

Persistence and degradability

- Material data lacking.

Bioaccumulative potential

- Material data lacking.

Mobility in Soil

- Material data lacking.

Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

State Right To Know				
Component	**CAS**	**MA**	**NJ**	**PA**
Biuret	108-19-0	No	No	No
Propylene glycol	57-55-6	No	Yes	Yes

Urea	57-13-6	No	No	No

Inventory				
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**TSCA**
Biuret	108-19-0	Yes	No	Yes
Propylene glycol	57-55-6	Yes	No	Yes
Urea	57-13-6	Yes	No	Yes

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Uncontrolled product according to WHMIS classification criteria
•Urea	57-13-6	Uncontrolled product according to WHMIS classification criteria

Canada - WHMIS 1988 - Ingredient Disclosure List

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	1 %
•Urea	57-13-6	Not Listed

Environment

Canada - CEPA - Priority Substances List

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

•Biuret	108-19-0	Not Listed
•Propylene glycol	57-55-6	Not Listed
•Urea	57-13-6	Not Listed

Section 16 - Other Information

Revision Date
- 06/March/2017

Preparation Date
- 23/February/2016

Disclaimer/Statement of Liability
- 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 use of this material. It is the responsibility of the user to

comply with all applicable federal, state, and local laws and regulations. Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

Key to abbreviations

NDA = No Data Available