



BRODI SPECIALTY PRODUCTS LTD.  
3175 14th Avenue, Unit 1  
Markham, Ontario, L3R 0H1  
Canada  
1-877-744-0751

**PRODUCT: SAF-D-SCALE****SECTION 01: IDENTIFICATION**

Supplier identifier..... BRODI SPECIALTY PRODUCTS LTD.  
3175 14th Avenue, Unit 1  
Markham, Ontario  
Canada  
L3R 0H1  
1-877-744-0751

Product identifier..... SAF-D-SCALE

Product code..... BRODI7264

Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).

Product use..... All purpose industrial cleaner for removal of water scale, soap scum and rust scale.

**SECTION 02: HAZARD IDENTIFICATION**

Hazard classification..... Skin Corrosion — Category 1B. Serious Eye Damage — Category 1.

Signal word..... DANGER.

Hazard statement..... H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention..... P260 Do not breathe mist, vapours or spray. P264 Wash hands thoroughly after handling.

Response..... P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage..... P405 Store locked up.

Disposal..... P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards..... None.

**SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	CAS #	WT. %
Urea monohydrochloride	506-89-8	15-20
Alcohols, C9-11, ethoxylated	68439-46-3	2-3

**SECTION 04: FIRST-AID MEASURES**

Routes of exposure

Inhalation..... Remove to fresh air. Administer artificial respiration if necessary. Get medical aid as soon as possible.

Ingestion..... Rinse mouth and then drink plenty of water. Do not induce vomiting. . Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Skin contact..... Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and launder before reuse. Get medical aid.

Eye contact..... Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical aid.

Most important symptoms and effects, both acute and delayed . The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Medical attention and special treatment..... Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information..... IF exposed or concerned: Get medical advice/attention.

**PRODUCT: SAF-D-SCALE****SECTION 05: FIRE-FIGHTING MEASURES**

Extinguishing media.....	Use an extinguishing agent suitable for the surrounding fire.
Hazardous combustion products.....	Chlorine, Hydrogen chloride gas. Harmful vapours. Carbon oxides. The substances/groups of substances mentioned can be released in case of fire.
Special protective equipment and precautions	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
Sensitivity to static discharge.....	Product is not sensitive to static discharge.
Sensitivity to mechanical impact.....	Product is not sensitive to mechanical impact.
Further information.....	Contact with some reactive metals may produce flammable hydrogen gas. During fire, gases hazardous to health may be formed.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area. Restrict access to area until completion of clean up. Evacuate personnel to safe areas. Ensure clean up is conducted by trained personnel only. . Ventilate area if indoor.
Environmental precautions.....	If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Prevent further leakage or spillage if safe to do so. Do not discharge into drains/surface waters/groundwater.
Methods and materials for containment and cleaning up	Stop leak. Dike and contain spill. For large amounts: Pump off product. Neutralize spill with sodium bicarbonate. For residues: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

**SECTION 07: HANDLING AND STORAGE**

Handling precautions.....	Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. . Do not get in eyes, on skin or on clothing. Avoid inhalation of mists/vapours/fumes. Wash thoroughly after handling. Keep container tightly closed.
Storage needs.....	Keep in a dry, cool and well-ventilated place. Keep containers tightly closed when not in use.
Materials to avoid.....	Keep away from strong bases. Do not mix with other chemicals or cleaners.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Urea monohydrochloride	not available	not available	not available	not available	not available
Alcohols, C9-11, ethoxylated	not available	not available	not available	not available	not available
Engineering controls.....	Good general ventilation (typically 10 air changes per hour) should be used. . Emergency showers and eye wash stations should be available.				
Individual protection measures					
Eye/type.....	Safety glasses with side-shields. Wear face shield if splashing hazard exists.				
Gloves/ type.....	Wear chemical resistant protective gloves.				
Respiratory/type.....	If using in a poorly ventilated area, wear a properly fitted respirator (NIOSH approved) during exposure.				
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Wear clean long legged, long sleeved work clothes.				

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance.....	liquid.
Color.....	green.
Odour.....	apple.
Odour threshold.....	no data available.
pH.....	<1.
Melting point (°C).....	not applicable.
Freezing point (°C).....	< 0.
Initial boiling point (°C).....	100.
Flash point (°C), Method.....	not applicable.
Evaporation rate.....	no data available.
Upper flammability limit (% vol).....	no data available.
Lower flammability limit (% vol).....	no data available.
Vapour pressure (mm Hg).....	no data available.
Vapour density (air=1).....	> 1.
Relative density/Specific Gravity.....	1.07.

**PRODUCT: SAF-D-SCALE****SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Water solubility.....	soluble.
Solubility in other solvents.....	no data available.
Partition coefficient — n-octanol/water.....	no data available.
Auto ignition temperature (°C).....	> 200 °C.
Thermal decomposition temperature.....	no data available.
Viscosity.....	thick liquid.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity.....	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability.....	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions.....	No hazardous reactions when stored and handled according to instructions. The product is chemically stable. Contact with some reactive metals may produce flammable hydrogen gas.
Conditions to avoid.....	Avoid heat and open flame. Exposure to sunlight. Do not mix with other chemicals.
Incompatible materials.....	Acids and bases. Strong oxidizing agents.
Hazardous decomposition products.....	Toxic gases/fumes may be given off during burning or thermal decomposition.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Urea monohydrochloride	not available	1121 mg/kg (oral-rat)
Alcohols, C9-11, ethoxylated	not available	>2,000 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	Inhalation of vapours may cause irritation to the nose, throat and respiratory tract.	
Ingestion.....	Ingestion may cause pain, irritation and burns in the mouth, throat and stomach.	
Skin contact.....	Corrosive: severe skin burns, scars.	
Eye contact.....	Can cause eye damage.	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.	
Acute inhalation toxicity.....	Acute toxicity estimate : > 20 mg/l. Virtually nontoxic by inhalation. Method: calculation method.	
Skin corrosion/irritation.....	Result: Skin corrosion.	
Serious eye damage/eye irritation.....	Result: Corrosive to eyes.	
Respiratory or skin sensitisation.....	Non-sensitizing.	
Specific target organ toxicity (STOT) single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.	
Aspiration hazard.....	No aspiration hazard expected.	
Chronic toxicity/effects		
Specific target organ toxicity (STOT) repeated exposure	No known significant effects or critical hazards.	
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.	
Reproductive toxicity.....	No known significant effects or critical hazards.	
Germ Cell Mutagenicity.....	No known significant effects or critical hazards.	
Remarks.....	The product has not been tested. The statement has been derived from the properties of the individual components.	
Symptoms of Exposure.....	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.	

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity.....	May cause long-term adverse effects in the aquatic environment.
Persistence and degradability.....	The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Bioaccumulative potential.....	No data available.
Mobility in soil.....	No data available.
Other adverse effects.....	No applicable information available.

**PRODUCT: SAF-D-SCALE****SECTION 13: DISPOSAL CONSIDERATIONS**

## Disposal methods

Waste disposal of substance..... Dispose of in accordance with national, state and local regulations.  
Container disposal ..... Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**SECTION 14: TRANSPORT INFORMATION**

TDG classification..... UN3265, Corrosive liquid, acidic, organic, n.o.s. (urea monohydrochloride), Class 8, PGIII.

**SECTION 15: REGULATORY INFORMATION**

WHMIS regulatory status..... This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.

**SECTION 16: OTHER INFORMATION**

Disclaimer..... The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Prepared by: ..... CanChem Consultant

Preparation date..... Mar 01/2017