



ROYALPAK
1870 ALBION ROAD, UNIT 3
ETOBICOKE ON. M9W 5T2
CANADA
416-746-4226

PRODUCT: ECOTERRA "E"

CODE: 4112

SECTION 01: IDENTIFICATION

Supplier identifier..... RoyalPak
1870 Albion Road, Unit 3
Etobicoke ON. M9W 5T2
Canada
416-746-4226

Product identifier..... ECOTERRA "E"
Product code..... 4112
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 1. Serious Eye Damage — Category 1.
Signal word..... DANGER.
Hazard statement..... H314 Causes severe skin burns and eye damage.
Precautionary statements..... P260 Do not breathe mist/vapours/spray. P264 Wash exposed skin thoroughly after handling. 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. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards..... None.
Supplemental Information..... Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Urea monohydrochloride	506-89-8	7-13
Uronium hydrogen sulphate	21351-39-3	5-10
Alcohols, C9-11, ethoxylated	68439-46-3	1-5
Lauramine Oxide	1643-20-5	0.5-1.5
<The exact concentration of composition has been withheld as a trade secret>		

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 laundry 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 immediately.

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.

PRODUCT: ECOTERRA "E"

CODE: 4112

SECTION 04: FIRST-AID MEASURES

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.

SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media..... Use an extinguishing agent suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.
 Hazardous combustion products..... Chlorine, Hydrogen chloride gas. Harmful vapours. Carbon oxides.
 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. Neutralize spill with sodium bicarbonate. Absorb with inert material (soil, sand, vermiculite) or wipe up or scrape up and place in an appropriate waste disposal container clearly identified. Use non-sparking and antistatic tools. Dispose via a licensed waste disposal contractor. Finish cleaning by rinsing with water contaminated surface. Contaminated absorbent material may pose the same hazards as the spilled product.

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
Uronium hydrogen sulphate	not available	not available	not available	not available	not available
Alcohols, C9-11, ethoxylated	not available	not available	not available	not available	not available
Lauramine Oxide	not available	not available	not available	not available	not available
Engineering controls.....	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Eye wash bottle with pure water. Facilities storing this material should be equipped with an eyewash facility and a safety shower.				
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.				

PRODUCT: ECOTERRA "E"

CODE: 4112

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid.
 Color..... green.
 Odour..... characteristic.
 Odour threshold..... not 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..... not available.
 Upper flammability limit (% vol)..... not available.
 Lower flammability limit (% vol)..... not available.
 Vapour pressure (mm Hg)..... not available.
 Vapour density (air=1)..... > 1.
 Relative density/Specific Gravity..... 1.07.
 Water solubility..... soluble.
 Solubility in other solvents..... not available.
 Partition coefficient — n-octanol/water..... not available.
 Auto ignition temperature (°C)..... > 200 °C.
 Thermal decomposition temperature..... not available.
 Viscosity..... thin 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)
Uronium hydrogen sulphate	not available	not available
Alcohols, C9-11, ethoxylated	not available	>2,000 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
Lauramine Oxide	not available	>1,065 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.	

PRODUCT: ECOTERRA "E"

CODE: 4112

SECTION 11: TOXICOLOGICAL INFORMATION

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..... Moderately persistent in the environment.

Bioaccumulative potential..... No data available.

Mobility in soil..... No data available.

Other adverse effects..... No applicable information available.

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..... JAN 16/2019