



Chandler
225 Thorne Avenue
Saint John, NB, E2L 4L9
Canada
(506) 658-8000

PRODUCT: LT DETERGENT LOW TEMPERATURE DISH DETERGENT
SECTION 01: IDENTIFICATION

Supplier identifier..... Chandler
225 Thorne Avenue
Saint John
New Brunswick
Canada
E2L 4L9

Product identifier..... LT DETERGENT LOW TEMPERATURE DISH DETERGENT

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

Product use..... Automatic dish detergent .

Restriction on use..... For industrial, institutional and food plant use only.

SECTION 02: HAZARD IDENTIFICATION


According to Hazardous Products
Regulations (HPR) (SOR/2015-17)

Hazard classification..... Corrosive to Metals — Category 1 . Acute Toxicity (Oral) — Category 4. Skin Corrosion — Category 1. Serious Eye Damage — Category 1. Carcinogenicity — Category 2.

Signal Word..... DANGER.

Hazard statement..... H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H351 Suspected of causing cancer.

Precautionary statements..... P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. P234 Keep only in original packaging. P260 Do not breathe vapours. P264 Wash exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P390 Absorb spillage to prevent material damage. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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. P308+P313 IF exposed or concerned: Get medical advice/attention. P406 Store in corrosion resistant container with a resistant inner liner. 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. %
Sodium hydroxide	1310-73-2	10-30
Trisodium nitrilotriacetate	5064-31-3	3-7
<The exact concentration of composition has been withheld as a trade secret>		

SECTION 04: FIRST-AID MEASURES

Routes of exposure

Inhalation..... If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

PRODUCT: LT DETERGENT LOW TEMPERATURE DISH DETERGENT**SECTION 04: FIRST-AID MEASURES**

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.....	Immediately flush skin with plenty of water. Remove contaminated clothing and footwear. Wash contaminated clothing before reuse. Get medical attention immediately. Call a poison center or physician. Chemical burns must be treated promptly by a physician. 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.
Eye contact.....	
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.

SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media.....	Not flammable. Product will not burn or support fire. Use any media suitable for extinguishing supporting fire.
Hazardous combustion products.....	May include, and are not limited to: oxides of carbon, oxides of nitrogen.
Special protective equipment and precautions	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Move containers from fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.
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.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Eliminate all sources of ignition. Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area.
Environmental precautions.....	Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods. Do not discharge into drains/surface waters/groundwater.
Methods and materials for containment and cleaning up	Ventilate area. Avoid runoff into storm sewers and ditches that lead to waterways. Absorb in vermiculite, dry sand or earth and place into container. Dispose of absorbed material in accordance with regulations.

SECTION 07: HANDLING AND STORAGE

Handling precautions.....	Read label on container before using. Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. Keep container closed when not in use.
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 acids. 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
Sodium hydroxide	not available	2 mg/m3 (ceiling)	not available	not available	2 mg/m3 (ceiling)
Trisodium nitrilotriacetate	1 mg/m3	2 mg/m3	not available	not available	not available
Engineering controls.....	Emergency showers and eye wash stations should be available. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.				
Individual protection measures					
Eye/type.....	Safety glasses with side-shields.				
Gloves/type.....	Wear chemical resistant protective gloves.				
Respiratory/type.....	Generally not required. Wear respiratory protection if ventilation is inadequate.				
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Wear clean long legged, long sleeved work clothes. Remove soiled clothing and wash it thoroughly before reuse.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....	liquid.
Color.....	white. clear.
Odour.....	mild.
Odour threshold.....	not available.

PRODUCT: LT DETERGENT LOW TEMPERATURE DISH DETERGENT**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

pH.....	13.5-14.
Melting point (°C).....	not available.
Freezing point (°C).....	not available.
Initial boiling point (°C).....	not available.
Flash point (°C), Method.....	no data available.
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).....	not available.
Relative density/Specific Gravity.....	1.16.
Water solubility.....	soluble.
Solubility in other solvents.....	not available.
Partition coefficient — n-octanol/water.....	not available.
Auto ignition temperature (°C).....	not available.
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.
Conditions to avoid.....	Contact with incompatible materials.
Incompatible materials.....	Acids, soft metals.
Hazardous decomposition products.....	No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Sodium hydroxide	not available	240 mg/kg (oral-rat); 1350 mg/kg (dermal-rabbit)
Trisodium nitrilotriacetate	>5 mg/l (inhalation-rat, 4h)	1,740 mg/kg (oral-rat); >10,000 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	Inhalation of spray or mist may cause irritation of the 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.....	Eye contact may cause severe burns and permanent corneal injury. May be followed by blindness.	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 300 and < 2,000 mg/kg. Method: calculation method. Harmful if swallowed.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Virtually nontoxic after a single skin contact. Method: calculation method.	
Acute inhalation toxicity.....	Acute toxicity estimate : > 5 mg/l. Exposure time: 4 h. Test atmosphere: vapour. 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.....	Suspected of causing cancer. Trisodium nitrilotriacetate is listed as IARC Group 2B (possibly carcinogenic to humans).	
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.	

PRODUCT: LT DETERGENT LOW TEMPERATURE DISH DETERGENT**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity.....	Harmful to aquatic life. May cause long-term adverse effects in the aquatic environment.
Persistence and degradability.....	No data available.
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.....	UN1824, Sodium hydroxide solution, Class 8, PGII.
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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.
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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.....	2023-07-20