

	person. Rinse mouth thoroughly with water.		
Skin contact	IF ON SKIN: Remove contaminated clothing, wash immediately with soap and water (20 - 30 minutes). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. If symptoms persist, seek medical attention.		
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.		
Most important symptoms and effects (acute or delayed)	Harmful if swallowed and in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation.		
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.		
Section 5. Fire-Fighting Measures			
Specific hazards of the hazardous product (hazardous combustion products)			
Smoke, fume, oxides of carbon and nitrogen.			
Suitable and unsuitable extinguishing media			
In case of fire: Use Carbon dioxide (CO ₂), dry chemical and alcohol resistant foam.			
Special protective equipment and precautions for fire-fighters			
During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required			
Section 6. Accidental Release Measures			
Personal precautions, protective equipment and emergency procedures			
Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil. Removal of ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.			
Methods and materials for containment and cleaning up			
Avoid prolonged exposure. Stop leak if you can do it without risk. Spill should be contained with inert material and disposed into suitable retaining area. Do not touch or walk through spilled material. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Take precautionary measures against static discharges. Dispose of in accordance with local, provincial and federal regulations.			
Section 7. Handling and Storage			
Precautions for safe handling			
Do not/avoid breath dust/fume/gas/mist/vapours/spry. Wash hands/nails/face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear gloves/protective clothing/gloves/eye protection/face protection.			
Conditions for safe storage, including any incompatibilities			
Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. Storage temperature: 16 - 27 °C.			
Section 8. Exposure Controls/Personal Protection			
Control parameters (biological limit values or exposure limit values and source of those values)			
Exposure limits: ACGIH – TLV CAS 100-51-6 TWA 10.000000 ppm			
Appropriate engineering controls			
Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards.			
Individual protection measures/personal protective equipment			
Gloves: Neopren gloves or equivalent; Clothing: Shirts with long sleeves, long pants; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions.			
Section 9. Physical and Chemical Properties			
Appearance, physical state/colour	Liquid	Vapour pressure	Not available
Odour	Faint Odor	Vapour density	Not available
Odour threshold	Not available	Relative density	Not available
pH	Not Available	Solubility	Soluble
Melting/freezing point	Not available	Partition coefficient - n-octanol/water	Not available
Initial boiling point/range	Not available	Auto-ignition temperature	Not available

Flash point	> 100 °C	Decomposition temperature	Not available
Evaporation rate	Not available	Viscosity	Not available
Flammability (solids and gases)	Not available	VOC	Not available
Upper and lower flammability/explosive limits	Not available	Other	None known
Section 10. Stability and Reactivity			
Reactivity			
Stable under normal conditions.			
Chemical stability			
Yes, Stable under the recommended storage and handling conditions prescribed.			
Possibility of hazardous reactions			
Non under normal conditions of storage and use.			
Conditions to avoid (static discharge, shock or vibration)			
Excess heat.			
Incompatible materials			
Acids, bases, oxidizing agents.			
Hazardous decomposition products			
Carbon oxides.			
Section 11. Toxicological Information			
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)			
Harmful if swallowed. Harmful if in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damage. Causes Skin irritation. Suspected of damaging fertility or the unborn child.			
Symptoms related to the physical, chemical and toxicological characteristics			
Eye contact may cause serious irritation. May cause an allergic skin reaction.			
Delayed and immediate effects (chronic effects from short-term and long-term exposure)			
Skin Sensitization – Cause skin irritation. Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – Not available; Reproductive Toxicity – Suspected human reproductive toxicant; Specific Target Organ Toxicity — Single Exposure – No data available; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.			
Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)			
CAS 39423-51-3 LD ₅₀ Oral - Rat – 75 mg/kg; LD ₅₀ Dermal – Rabbit – >5000 mg/kg; LC ₅₀ Inhalation – Not available; CAS 100-51-6 LD ₅₀ Oral – Rat 1,230 mg/kg; LD ₅₀ Dermal Rabbit 2,000 mg/kg; LC ₅₀ Inhalation Rat 8.8 mg/L 4h; Skin Rabbit- irritating to skin 24h; ATE not available in this document.			
Section 12. Ecological Information			
Ecotoxicity (aquatic and terrestrial information)			
Toxicity to fish CAS: 39423-51-3 LC ₅₀ : 0.128 mg/l (Pimephales promelas (fathead minnow)) 96h; CAS 100-51-6 LC ₅₀ 10mg/l Lepomis macrochirus (Bluegill) 96h; Toxicity to Aquatic Invertebrates : CAS: 39423-51-3 EC ₅₀ : 0.085 mg/l Daphnia magna (Water flea) 48h; CAS 100-51-6 EC ₅₀ 55 mg/l Daphnia magna (Water flea) 24h; Toxicity to Aquatic Plants : CAS: 39423-51-3 EC ₅₀ : 1.3 mg/L, (Desmodesmus subspicatus (Green algae)) 72 h			
Persistence and degradability	CAS: 39423-51-3: Inoculum: activated sludge. Concentration 13 mg /l Result: Inherently biodegradable. CAS 100-51-6 Biodegradability Biotic/Aerobic – Exposure time 28 d Result: 92-96% - Readily biodegradable		
Bioaccumulative potential	CAS: 39423-51-3: Bioconcentration factor (BCF) =231. Does not bioaccumulate		
Mobility in soil	No data available		
Other adverse effects	Very toxic to aquatic life with long lasting effects.		
Section 13. Disposal Considerations			
Information on safe handling for disposal/methods of disposal/contaminated packaging			
Dispose of contents/container into safe container in accordance with local, regional or national regulations.			
Section 14. Transport Information			
UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations			
UN 2735; CORROSIVE LIQUID AMINES. N.O.S. (Poly(propylène triamine); CLASS: 8; PG: III			
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)			
UN 2735; CORROSIVE LIQUID AMINES. N.O.S. (Poly(propylène triamine); CLASS: 8; PG: III			
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)			
UN 2735; CORROSIVE LIQUID AMINES. N.O.S. (Poly(propylène triamine); CLASS: 8; PG: III			
Special precautions (transport/conveyance)	None		

Environmental hazards (IMDG or other)	Marine pollutant
Bulk transport (usually more than 450 L in capacity)	None
Section 15. Regulatory Information	
Safety/health Canadian regulations specifics	This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
Environmental Canadian regulations specifics	Refer to Section 3 for ingredient(s) of the DSL
Safety/health/environmental outside regulations specifics	
United States OSHA information: This product is regulated according to OSHA (29 CFR). California Proposition 65: This product does not contain an ingredient known to the State of California to cause cancer or other reproductive. United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14. United States TCSA information: Refer to the ingredients listed in Section 3.	
Section 16. Other Information	
Date of the latest revision of the safety data sheet	February 25, 2023 - version 01
References	Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.eurpea.eu
Abbreviations	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System
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