

Lachine (Montreal), Que H8R 1A3

## **Material Safety Data Sheet**

EMERGENCY NUMBERS:

(USA) CHEMTREC : 1(800) 424-9300 (24hrs) (CAN) CANUTEC : 1(613) 996-6666 (24hrs) (USA) Anachemia : 1(518) 297-4444 (CAN) Anachemia : 1(514) 489-5711

WHMIS	Protective Clothing	TDG Road/Rail
WHMIS CLASS: D-2B		Not controlled under TDG (Canada).
		PIN: Not applicable. PG: Not applicable.
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Section I. Product Identification and Uses				
Product name	IONALL SOLUTION	CI#	Not available.	
Chemical formula	Not applicable.	CAS#	Not applicable.	
Synonyms	R-2960, 48915	Code	R-2960	
		Formula weight	Not applicable.	
Supplier	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Supersedes		
Material uses	For laboratory use only.			

Name	CAS #	%	TLV
1) SODIUM CHLORIDE 2) SODIUM ACETATE 3) ACETIC ACID, GLACIAL	7647-14-5 6131-90-4 64-19-7	5-10 5-10 1-5	Not established by ACGIH Not established by ACGIH Exposure limits: ACGIH TWA 10 ppm (25 mg/m3); STEL 15 ppm (35 mg/m3)
4) 1,2-CYCLOHEXYLENE DINITRILO TETRAACETIC ACID 5) WATER	482-54-2 7732-18-5	0.1-1 Balance	Not established by ACGIH Not established by ACGIH

Foxicity values of the nazardous ingredients	SODIUM ACETATE: ORAL (LD50): Acute: 3530 mg/kg (Rat). 6891 mg/kg (Mouse). SODIUM CHLORIDE: ORAL (LD50): Acute: 3000 mg/kg (Rat). 4000 mg/kg (Mouse). INTRAPERITONEAL (LD50): Acute: 2602 mg/kg (Mouse). INTRAVENOUS (LD50): Acute: 645 mg/kg (Mouse). ACETIC ACID, GLACIAL: ORAL (LD50): Acute: 3310 mg/kg (Rat). DERMAL (LD50): Acute: 1060 ul/kg (Rabbit). VAPOR (LC50): Acute: 5620 ppm (Mouse) (1 hour(s)). UNREPORTED (LDLo): Acute: 308 mg/kg (Man). INTRAVENOUS (LD50): Acute: 525 mg/kg (Mouse).
	INTRAPERITONEAL (LD50): Acute: 413 mg/kg (Rat). 150 mg/kg (Mouse).

Section III. Physical Data		IONALL SOLUTION	page 2/4
Physical state and appearance / Odor	Colorless liquid. Acetic acid odor.		
pH (1% soln/water)	Not available.		
Odor threshold	Not available.		
Percent volatile	Not available.		
Freezing point	Not available.		
Boiling point	Not available.		
Specific gravity	>1 (Water = 1)		
Vapor density	Not available.		
Vapor pressure	Not available.		
Water/oil dist. coeff.	Not available.		
Evaporation rate	Not available.		
Solubility	Miscible in water.		

## Section IV. Fire and Explosion Data

Flash point	Not available.
Flammable limits	Not available.
Auto-ignition temperature	Not available.
Fire degradation products	Oxides of carbon, sodium, and nitrogen. Hydrogen chloride.
Fire extinguishing procedures	Use DRY chemical, carbon dioxide, alcohol-resistant foam or water spray. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode. Cool containing vessels with flooding quantities of water.
Fire and Explosion Hazards	The sensitivity to static discharge is not available. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.

Section V. Toxicological Properties			
Routes of entry	Ingestion and inhalation. Eye contact. Skin contact. Skin absorption.		
Effects of Acute Exposure	Harmful by inhalation, in contact with skin and if swallowed. Target organs: eyes, skin, respiratory system, teeth.		
Еуе	Causes irritation.		
Skin	Repeated or prolonged skin contact may cause irritation.		
Inhalation	Material is irritating to mucous membranes and upper respiratory tract. May cause central nervous system depression (e.g., headache, nausea, vomiting), coughing, dyspnea, thoracic pain, bronchopneumonia, chemical pneumonitis, pulmonary edema.		
Ingestion	Causes gastrointestinal irritation. May cause nausea, diarrhea, abdominal pain, hematemesis, albuminuria, hemolysis, hemoglobinuria, anuria, uremia, kidney damage, shock, coma and possibly death.		

Section V. Toxicological Properties		IONALL SOLUTION	page 3/4
Effects of Chronic Overexposure	Conjunctivitis, dark coloration of the skin, dermatitis, dental e constipation, kidney damage. May cause allergic skin reaction. C available. Teratogenic effects: Not available. Toxicity of the produour knowledge, the chemical, physical, and toxicity of this substance.	arcinogenic effects: Not available. M ct to the reproductive system: Not available.	lutagenic effects: Not
Section VI. F	irst Aid Measures		
Eye contact	Immediately flush eyes with copious quantities of water for at leasentire surface. Call a physician.	st 15 minutes holding lids apart to ens	sure flushing of the
Skin contact	Immediately flush skin with plenty of water for at least 15 minutes If irritation occurs or persists seek medical attention. Wash conta		and shoes.
Inhalation	Remove patient to fresh air. Administer approved oxygen supply CPR if breathing has ceased. Call a physician.	if breathing is difficult. Administer arti	ificial respiration or
Ingestion	If conscious, wash out mouth with water. Have conscious persinduce vomiting. Keep patient warm and quiet. Seek immediate unconscious or convulsing person. If spontaneous vomiting occ breathing in of vomitus, rinse mouth and administer more water.	medical attention. Never give anythin	ng by mouth to an

## Section VII. Reactivity Data

Stability	Stable. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.
Hazardous decomp. products	Not available.
Incompatibility	Reacts with most common metals to produce hydrogen. May react violently with: oxidizing agents, amines, bases, chromic acid, nitric acid, sodium peroxide, alcohols, alkalies, peroxides, perchloric acid, sulfides, cyanides, carbonates, chlorosulfonic acid, 2-aminoethanol, bromine pentafluoride, phosphorus trichloride, acetaldehyde, acetic anhydride, potassium tert-butoxide, permanganates, n-xylene, oleum, phosphorus isocyanate, oxides, hydrides, water reactive materials.
Reaction Products	Corrosive to metals. Hazardous polymerization will not occur.

Section VIII. P	reventive Measures	IONALL SOLUTION	page 4/4
Protective Clothing in case of spill and leak	Wear respirator, chemical safety goggles, ru	bber boots and heavy rubber gloves.	
Spill and leak	Absorb on sand or vermiculite and place in pick up is complete. DO NOT empty into dr	a closed container for disposal. Ventilate area and wash ains. DO NOT touch spilled material.	h spill site after material
Waste disposal	According to all applicable regulations.		
Storage and Handling	incompatible materials. Do not add any oth gas/fumes/vapor/spray. In case of insuffici closed and dry. Manipulate in a well ventila hazardous residue. Handle and open conta must be manipulated by qualified personnel.	reas, sparks, and flame. Store in a well ventilated a her material to the container. Do not wash down the ent ventilation, wear suitable respiratory equipment. ted area or under an adequate fume hood. Empty co iner with care. Take off immediately all contaminated Do not get in eyes, on skin, or on clothing. Wash well a not allow smoking and food consumption while handling	drain. Do not breathe Keep container tightly ntainers may contain a clothing. This product fter use. In accordance
Section IX. P	rotective Measures		
Protective clothing	Splash goggles. Impervious gloves, apron, coveral approved respirator is advised in the absence of pr	ls, and/or other resistant protective clothing. Sufficient to protect sl oper environmental controls. If more than TLV, do not breathe va Make eye bath and emergency shower available. Ensure that e	apor. Wear self-contained
Engineering controls	Use process enclosures, local exhaust venti recommended exposure limits. Do not use	lation, or other engineering controls to keep airborne leve in unventilated spaces.	els below
Section X. Or	her Information		
Special Precautions or comments	exposure. Manipulate in a well ventilated are our knowledge, the chemical, physical and to	h care. Container should be opened only by a I).	
			NFPA
Prepared by MSDS D	epartment/Département de F.S	Validated 08-Feb-2010	
Evaluation V to Nation evaluation and the Second evaluation of the S			
		as of the date hereof, the company makes no warrant a are offered solely for your consideration, investigatio	