

# SAFETY DATA SHEET

## SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

**Product ID:** SIR-700-HP  
**Product Name:** Chromate Selective Weak Base Anion Exchange Resin  
**Revision Date:** Jul 31, 2025 **Date Printed:** Nov 24, 2025  
**Version:** 1.0 **Supersedes Date:** N.A.  
**Manufacturer's Name:** ResinTech, Inc.  
**Address:** 1801 Federal Street, Camden, NJ, US, 08105  
**Emergency Phone:** ChemTrec, (800) 424-9300  
**Information Phone Number:** (856) 768-9600  
**Email:** ixresin@resintech.com  
**Product/Recommended Uses:** Water Purification

## SECTION 2) HAZARDS IDENTIFICATION

### Classification

Not classified as a hazardous substance or mixture in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

### Hazards Not Otherwise Classified (HNOC)

No data available.

## SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0007732-18-5	WATER	39% - 65%
0026658-42-4	1,2-ETHANEDIAMINE, N1-(2-AMINOETHYL)-N2-[2-[(2-AMINOETHYL)AMINO]ETHYL]-, POLYMER WITH 2-(CHLOROMETHYL)OXIRANE	29% - 48%
0007647-01-0	HYDROCHLORIC ACID	2% - 8%
0007664-93-9	SULFURIC ACID	2% - 8%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

## SECTION 4) FIRST-AID MEASURES

### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

### Eye Contact

Gently brush product off face. Do not rub eyes. Let the eyes water naturally for a few minutes. Look right and left, then up and down. If particle/dust does not come out, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelids open. If eye irritation persists: Get medical advice/attention. Do not attempt to manually remove anything from the eyes.

### Skin Contact

Rinse/wash with lukewarm, gently flowing water and mild soap for 5 minutes or until product is removed. If skin irritation occurs or you feel

unwell: Get medical advice/attention.

### Ingestion

Rinse mouth. If you feel unwell/If concerned: Get medical advice/attention.

### Most important symptoms and effects, both acute and delayed

No data available.

### Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

## SECTION 5) FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Large Fire: Dry chemical, CO2, alcohol resistant foam or water spray Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

### Unsuitable Extinguishing Media

Do not use water jet.

### Specific Hazards Arising from the Chemical

Dense smoke may be generated while burning.

### Precautions for Firefighters

Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray is recommended to cool or protect exposed materials or structures. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Special Protective Equipment

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## SECTION 6) ACCIDENTAL RELEASE MEASURES

### Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Do not touch or walk through spilled material. Ventilate closed spaces before entering.

### Protective Equipment

See section 8 for specifics on protective personal equipment (PPE).

### Personal Precautions

Avoid breathing dust. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so.

### Methods and Materials for Containment and Cleaning up

Pick up with inert, non-combustible material using clean, non-sparking tools and place into loosely covered plastic containers for later disposal.

## SECTION 7) HANDLING AND STORAGE

### General

Avoid breathing dust. Avoid contact with skin, eye or clothing. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Use good personal hygiene practices. Wash hands after use.

### Ventilation Requirements

Report ventilation failures immediately. Use only with adequate ventilation to control air contaminants to their exposure limits.

## Storage Room Requirements

Store in cool, dry, well-ventilated areas away from heat, direct sunlight and strong oxidizers. Keep container(s) tightly closed and properly labeled. Containers that have been opened must be carefully resealed to prevent leakage.

## SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye protection

Wear eye protection with side shields or goggles.

### Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber.

### Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.

### Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)
HYDROCHLORIC ACID	1		5 ceiling	7 ceiling				
SULFURIC ACID	1			1				0.2 (T)

Chemical Name	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	ACGIH Carcinogen	NIOSH Carcinogen
HYDROCHLORIC ACID	C 2						A4	
SULFURIC ACID				1			A2	

Chemical Name	ACGIH TLV Basis	ACGIH Notations	OSHA Skin designation	OSHA	CAN_ONsmg	CAN_ONtmg	CAN_ONsppm	CAN_ONtppm
HYDROCHLORIC ACID	URT irr	A4		1				
SULFURIC ACID	Pulm func	A2 (M)		1				

Chemical Name	CAN_QCVEMP ppm - CANADA_QUE BEC VALEUR D'EXPOSITIO N MOYENNE PONDÉRÉE_p pm	CAN_QCVEMP mg - CANADA_QUE BEC VALEUR D'EXPOSITIO N MOYENNE PONDÉRÉE_m g	CAN_QCVECD ppm - CANADA_QUE BEC VALEUR D'EXPOSITIO N DE COURTE DURÉE_ppm	CAN_QCVECD mg - CANADA_QUE BEC VALEUR D'EXPOSITIO N DE COURTE DURÉE_mg	CAN_ALtppm	CAN_ALtmg	CAN_ALsmg	CAN_AL_Notation
HYDROCHLORIC ACID			C2				(c) 3	3: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
SULFURIC ACID		0.2		3		1	3	

Chemical Name	CANtppm	CANtmg	CANsppm	CANsmg	CAN_AL_Carcinogen	CAN_ALsppm
HYDROCHLORIC ACID						(c) 2
SULFURIC ACID		1		3	A2	

(C) - Ceiling limit, (M) - Mist, (T) - Thoracic fraction, A2 - Suspected Human Carcinogen, A4 - Not Classifiable as a Human Carcinogen, func - Function, irr - Irritation, pulm - Pulmonary, URT - Upper respiratory tract

## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

% HAPS	0.00000%
% Solids by Vol	N/A
% Solids By Weight	0.00000%
% VHAPS	0.00000%
% VOC	0.00000%
Density	0.64100 g/ml
Density HAPS	0.00000 lb/gal
Density VHAPS	0.00000 lb/gal
Density VOC	0.00000 lb/gal
Specific Gravity	0.64100

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Flash Point Symbol	N/A
Flash Point	N/A
Coefficient Water/Oil	N/A
Flammability	N/A
Water Solubility	Insoluble
Viscosity	N/A
Appearance	Light Orange Beads
pH	Slightly Acidic
Odor Description	N/A
Upper Explosion Level	N/A
Lower Explosion Level	N/A
Vapor Density	N/A
Freezing Point	N/A
Melting Point	N/A
High Boiling Point	N/A
Low Boiling Point	N/A
Auto Ignition Temp	N/A
Evaporation Rate	N/A
Decomposition Pt	N/A
Kinematic Viscosity	N/A
Kinematic Viscosity Temperature	N/A

## SECTION 10) STABILITY AND REACTIVITY

### Reactivity

No data available.

#### **Chemical Stability**

Stable under normal storage and handling conditions.

#### **Conditions To Avoid**

Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

#### **Possibility of Hazardous Reactions/Polymerization**

No data available.

#### **Incompatible Materials**

Strong bases, acids, and oxidizing agents.

#### **Hazardous Decomposition Products**

Oxides of carbon.

## **SECTION 11) TOXICOLOGICAL INFORMATION**

#### **Acute Toxicity**

The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight

The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

#### **Aspiration Hazard**

Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

#### **Germ Cell Mutagenicity**

Based on available data, the classification criteria are not met.

#### **Reproductive Toxicity**

Based on available data, the classification criteria are not met.

#### **Respiratory/Skin Sensitization**

Based on available data, the classification criteria are not met.

#### **Serious Eye Damage/Irritation**

Based on available data, the classification criteria are not met.

#### **Skin Corrosion/Irritation**

Based on available data, the classification criteria are not met.

#### **Specific Target Organ Toxicity - Repeated Exposure**

Based on available data, the classification criteria are not met.

#### **Specific Target Organ Toxicity - Single Exposure**

Based on available data, the classification criteria are not met.

#### **Likely Routes of Exposure**

Inhalation, Ingestion, Skin contact, Eye contact

#### **Chronic Exposure**

Based on available data, the classification criteria are not met.

#### **Potential Health Effects - Miscellaneous**

Based on available data, the classification criteria are not met.

0007647-01-0 HYDROCHLORIC ACID

LC50 (rat): 8300 mg/m3 (5666 ppm) (30-minute exposure) (2)  
LC50 (rat): 45600 mg/m3 (31008 ppm) (5-minute exposure) (2)  
LC50 (mouse): 3100 mg/m3 (2142 ppm) (30-minute exposure) (2)  
LC50 (mouse): 16500 mg/m3 (11238 ppm) (5-minute exposure) (2)  
LD50 (oral, rabbit): 900 mg/kg (5)

0007664-93-9 SULFURIC ACID

LC50 (rat): 510 mg/m3 (2 hour-exposure) (255 mg/m3 - equivalent 4-hour exposure) (1)  
LC50 (mouse): 320 mg/m3 (2-hour exposure) (160 mg/m3 - equivalent 4-hour exposure) (1)  
LD50 (oral, rat): 2140 mg/kg (2)

**SECTION 12) ECOLOGICAL INFORMATION**

**Other Adverse Effects**

No data available.

**Ecotoxicity**

Based on available data, the classification criteria are not met.

**Persistence and Degradability**

No data available.

**Bioaccumulative Potential**

No data available.

**Mobility in Soil**

No data available.

**SECTION 13) DISPOSAL CONSIDERATIONS**

**Waste Disposal**

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste.

Spent Ion Exchange resin will contain ions that have been exchanged from the contacted substances. Knowledge of the process and/or testing are required to determine if the spent resin could contain hazardous substances sufficient to be considered a hazardous waste.

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste.

Waste management should be in full compliance with national, state and local laws.

**SECTION 14) TRANSPORT INFORMATION**

	<b>U.S. DOT Information</b>	<b>IMDG Information</b>	<b>IATA Information</b>
<b>UN Number:</b>	Not Regulated	Not Regulated	Not Regulated
<b>UN proper shipping name:</b>	N/A	N/A	N/A
<b>Transport Hazard class(es)</b>	Not Applicable	Not Applicable	Not Applicable
<b>Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>Hazardous substance (RQ)</b>	Not Applicable	Not Applicable	Not Applicable
<b>Environmental hazards</b>	No Data Available	No Data Available	No Data Available

Special precautions for user	No Data Available	No Data Available	No Data Available
Transport in bulk according to Annex II of MARPOL and the IBC code	No Data Available	No Data Available	No Data Available

## SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0007732-18-5	WATER	39% - 65%	DSL - Domestic Substance List, TSCA - Toxic Substances Control Act (TSCA)
0026658-42-4	1,2-ETHANEDIAMINE, N1-(2-AMINOETHYL)-N2-[2-[(2-AMINOETHYL)AMINO]ETHYL]-, POLYMER WITH 2-(CHLOROMETHYL)OXIRANE	28% - 47%	DSL - Domestic Substance List, SARA312, TSCA - Toxic Substances Control Act (TSCA)
0007647-01-0	HYDROCHLORIC ACID	2% - 8%	SARA313, DHS_COI - DHS_Chemical Of Interest, Canada_NPRI, DSL - Domestic Substance List, CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act, EHS, HAPS, SARA312, IARCCarcinogen, TSCA - Toxic Substances Control Act (TSCA), NEI - National Emissions Inventory, Canada_ON_419, NJ_RightToKnow_HazSubList - New Jersey Right to Know Hazardous Substance List (RTKHSL), MA_RightToKnow - Massachusetts Right to Know
0007664-93-9	SULFURIC ACID	2% - 8%	SARA313, Canada_NPRI, DSL - Domestic Substance List, CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act, EHS, SARA312, IARCCarcinogen, NTP_Carcinogen - National Toxicology Program Carcinogens, TSCA - Toxic Substances Control Act (TSCA), NEI - National Emissions Inventory, Canada_ON_419, NJ_RightToKnow_HazSubList - New Jersey Right to Know Hazardous Substance List (RTKHSL)

Product does not contain any chemicals listed under California Proposition 65

## SECTION 16) OTHER INFORMATION

### Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL- Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

## HMIS

Health	/ 0
FLAMMABILITY	1
Physical Hazard	0
Personal Protection	B

(\* ) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

### Version 1.0:

Revision Date: Aug 04, 2025

Version 1.0

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