



SAFETY DATA SHEET

1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: **ZINC SULFATE sp. gr. 18 pd.sp.**

Product Code: Z-6010Z

Product use: For laboratory or industrial use only

Supplier: Cochimbec Inc.
8561 chemin Dalton
Town of Mount-Royal, Quebec
H4T 1V5 CANADA

Telephone: 514-990-1935
Emergency Telephone: (CANUTEC): 613-996-6666

2 – HAZARDS IDENTIFICATION

GHS Classification: Acute Eye damage (Category 1)
Acute aquatic toxicity, short term (Category 1)
Chronic aquatic toxicity, long term (Category 1)



Signal word:		Danger
Hazard statement:	H318	Causes serious eye damage.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement:	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER / Doctor.
	P391	Collect spillage.
	P501	Dispose of contents / container to an approved waste disposal plant.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms: **None**

INGREDIENT	Concentration	CAS No.	EC No.	Index No.
Zinc Sulfate	15-25%	7732-18-5	231-793-3	030-006-00-9

4 – FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If victim is not breathing, give artificial respiration and call for medical assistance.
Skin contact:	Wash with plenty of soap and water. Consult a physician if irritation persists.
Eye contact:	Rinse immediately and cautiously with plenty of water. Remove contact lenses if present and easy to do, continue rinsing. If eye irritation persists get medical advice/attention.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth. Consult a physician.
Most important symptoms / effects	May cause severe eye irritation. May cause an eye irritation and / or burns to the mouth, throat and stomach. May hydrolyse and cause acid if swallowed. Symptoms may include vomiting, stomach pain, increase in pulse rate without drop in blood pressure, drop in blood pressure, diarrhea, kidney damage, other gastrointestinal disturbances and pancreatic hemorrhage.

5 – FIRE-FIGHTING MEASURES

Extinguishing media:	Use agent most appropriate to extinguish surrounding fire.
Combustion Exposure Hazards:	Hazardous decomposition products formed under fire conditions: Sulfur Oxides & Zinc Oxides.
Fire-Fighting equipment and precaution:	Wear a positive-pressure self-contained breathing apparatus if necessary, NIOSH / MSHA approved or equivalent.
Sensitivity to mechanical impact:	Not sensitive.
Sensitivity to static discharge:	N/D

NFPA	Risk	HEALTH	FLAMMABILITY	REACTIVITY	HAZARDS
0=Low	4=High	2	0	0	0

6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment. Avoid contact with skin and eyes.
Environmental Precautions:	Prevent further leakage or spillage using personal protection. Avoid product entering into drains. Avoid leaking into the environment.
Method & Material for containment and cleaning up:	Contain spillage without producing dust. Soak up with inert absorbent material. Keep in suitable closed container for disposal. Dispose according to local regulations. This material is a water pollutant and should not be emptied into drains.

7 – HANDLING AND STORAGE

Precautions for safe handling:	Wear personal protective equipment. Do not get on skin, eyes and clothing.
Conditions for Safe Storage:	Keep container tightly closed in a well-ventilated area.

8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

This product does not contain any dangerous substance that has occupational exposure limits as established by those responsible to set the rules specific to the region.

COMPONENT	CAS-No	VALUE	CONTROL PARAMETERS	BASIS
ZINC SULFATE	7446-19-7	--	N / D	--



Eye Protection:	Safety glasses or chemical safety goggles and/or a full face shield if splashing is possible.
Hand Protection:	Use chemical resistant gloves. (rubber or PVC) Gloves should be resistant to product. Refer to glove manufacturer for appropriate type and glove thickness.
Body Protection:	None normally required.
Respiratory Protection:	Where risk assessment shows air-purifying respirators are appropriate, use NIOSH (US) or CEN (EU) approved respirators if irritation or other symptoms are experienced.
Engineering Controls:	Ensure adequate ventilation.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.	Auto ignition temperature:	N / A
Color:	Light to dark yellow	Upper Explosion Limit:	N / A
Odour:	N/D	Lower Explosion Limit:	N / A
Odour threshold::	N/D	Vapour pressure:	N / A
pH:	3.5 – 4.5	Vapour density: (air = 1)	N/D
Melting point:	N / A	Relative density	1.18
Boiling point:	N/D	Water solubility:	Soluble
Boiling range:	N/D	Decomposition temperature:	N / A
Density	1.18 g/mL @ 25°C	Refractive Index:	N/D
Flash point:	N / A	Viscosity:	N/D
Evaporation rate: (n-Butyl Acetate = 1)	> 1	Partition coefficient: n-octanol / water	N/D

10 – STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	N/D
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Sulfur and Zinc Oxides.

11 – TOXICOLOGICAL INFORMATION

COMPONENTS	LD ₅₀ ORAL	LD ₅₀ DERMAL	LC ₅₀ INHALATION
Zinc Sulfate	1,710 mg/kg (rat)	N/D	N/D
Skin Corrosion / irritation	Causes irritation		
Serious eye damage / eye irritation	May cause severe eye irritation. Symptoms are pain, redness and tearing.		
Respiratory or skin sensitisation	No data available.		
Germ cell Mutagenicity	No data available.		
Carcinogenicity	This product does not contain any compounds listed by NTP, IARC, ACGIH or EPA classified as a carcinogen.		
Reproductive toxicity	No data available.		
Teratogenicity	No data available.		
Aspiration hazard	No data available		
Symptoms of Exposure	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Over exposure to dust or fumes may cause a metallic taste, can cause a pronounced thirst, cough, fatigue, muscle pain, nausea followed by fever and chills. A severe overexposure may cause bronchitis or pneumonia with a blue skin tone.		
Synergistic effects	No data available		
Addition information	RTECS: Not available		

12 – ECOLOGICAL INFORMATION

COMPONENTS	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to Algae
ZINC SULFATE	LC ₅₀ – Pimephales promelas (Fathead minnow) – 0.23 – 0.48 mg/l – 96 h.	LC ₅₀ – Daphnia Magna (Water flea) – 0.75 mg/l – 48 h.	N / D
Persistence and degradability	No data available.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
PBT and vPvB assessment	No data available.		
Other adverse effects	Very toxic to aquatic organisms.		

13 – DISPOSAL CONSIDERATIONS

Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Do not dispose in drain.
Contaminated clothing	Wash before reusing clothes.
Contaminated packaging	Dispose as unused product above.

14 – TRANSPORT INFORMATION



	TDG	IMDG	IATA
Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Sulfate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Sulfate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Sulfate)
UN-number:	UN3082	UN3082	UN3082
Class & Subclass:	9	9	9
Packing Group:	III	III	III
Limited Quantity:	5 L	5 L	5 L
ERAP Index:	--	--	--
ERG #:	--	--	--
Inhalation Toxicity:	No	No	No
Marine Pollutant	Yes	Yes	Yes

15 – REGULATORY INFORMATION

US Regulations	SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200 Conformance with TSCA.
Canada Classification	Canada WHMIS: Class D-2B: Toxic material causing other toxic effects. Moderate eye irritant. SDS in compliance with provisions of information as set out in Canadian Standard – Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)9a) of the Hazardous Product Act (HPA)). Listed on DSL.
International	--

16 – OTHER INFORMATION

Information on the preparation of SDS:	<p>Prepared by Cochimbec Inc. Safety Personnel March 16, 2022 Revision 0 I.C. 1,2,3,40</p>
Abbreviations:	<p>ACGIH = American Conference of Governmental Industrial Hygienists ASTM = American Society for Testing and Materials BCF = Bioconcentration Factor CAS = Chemical Abstract Services CCOHS = Canadian Center for Occupational Health & Safety CEN (EU) = Comité Européen de Normalisation CERCLA = Comprehensive Environmental Response Compensation & Liability Act CFR = Code of Federal Regulations CMR = Carcinogenic-mutagenic-toxic for reproduction CPR = Controlled Products Regulations DIN = German Institute for Standardisation DOT = Department of Transport EC₅₀ = Half maximal effect concentration EINECS = European Inventory of Existing Commercial Chemical Substances GHS = Global Harmonization System GLP = Good Laboratory practice GMO = Genetic Modified Organism IARC = International Agency for research on Cancer IATA = International Air Transport Association ISO = International Organisation for Standardisation IDLH = Immediate danger to life and health IMDG = International Maritime Dangerous Goods LC₅₀ = Lethal concentration causing 50% death LD₅₀ = Lethal dose causing 50% death LOAEL = Lowest Observed Adverse Effect Level LOEL = Lowest Observed Effect Level N/A = Not Applicable N/D = No Data N/E = Not Established NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety & Health NTP = National Toxicology Program OECD = Organisation for Economic Co-operation & Development OEL = Occupational exposure limit OHSC = Occupational health & safety council (committee) OSHA = Occupational Safety & Health Administration PBT = Persistent, Bioaccumulation, Toxic PEL = Permissible Exposure Limit RCRA = Resource Conservation & Recovery Act RTECS = Registry of Toxic Effects of Chemical Substances SARA = Species at Risk Act</p>

	<p> STEL = Short term exposure limit STEV = Short term exposure value STOT = Specific Target Organ Toxicity TDG = Transport of Dangerous Goods TLV = Threshold limit value TMD = Transport de Matières Dangereuses TSCA = Toxic Substance Control Act TWA = Time weighted Average TWAEV = Time weighted average exposure value UN = United Nations vPvB = very Persistent and very Bioaccumulative VOC = Volatile Organic Compounds WEEL = Workplace Environment Exposure Limit WHO = World Health Organisation WHMIS = Workplace Hazardous Material Information System W/V = Weight / Volume W/W = Weight / Weight </p>
Disclaimer:	<p> Cochimbec Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. The information herein is provided in good faith and believed to be correct as of the date shown above but does not purport to be all inclusive and shall be used only as a guide. We also urge each user of this product, to study this SDS carefully and become aware of and understand the hazards associated with this product. Since conditions for use of the product are not under the control of the manufacturer, it is the user's responsibility to determine the conditions necessary for the safe use of this product. This information relates only to the product designated herein, and does not relate to its use in combination with other material or in any other process. </p> <p> Do not use ingredient information and / or ingredient percentages in this SDS as a product specification. </p>

End of Safety Data Sheet