

# **SAFETY DATA SHEET**

# SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

CAS Number:	7446-20-0		
Product Name:	Zinc Sulphate, Heptahydrate		
Revision Date:	Oct 23, 2018	Date Printed:	Oct 24, 2018
Version:	1.0	Supersedes Date:	N.A.
Manufacturer's Name:	Thames River Chemical Corp.		
Address:	5230 Harvester Road Burlington, ON, C	CA, L7L 4X4	
Emergency Phone:	CHEMTREC (800) 424-9300		
Information Phone Numb	er:905-681-5353		
Fax:	905-681-5377		
Product/Recommended U	ses: For laboratory or industrial use only.		

# **SECTION 2) HAZARDS IDENTIFICATION**

### Classification

Acute aquatic toxicity - Category 1

Acute toxicity Oral - Category 4

### Pictograms



# Signal Word

Warning

### Hazard Statements - Health

Harmful if swallowed

### **Hazard Statements - Environmental**

Very toxic to aquatic life

### **Precautionary Statements - General**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

### **Precautionary Statements - Prevention**

Avoid release to the environment.

Wash/Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

### **Precautionary Statements - Response**

Collect spillage.

IF SWALLOWED: Call a POISON CENTER or doctor, if you feel unwell.

Rinse mouth.

### **Precautionary Statements - Storage**

No precautionary statement available.

### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/national/international regulation. Waste management should be in full compliance with national, regional and local laws.

### **Physical Hazards Not Otherwise Classified**

No Data Available

### Health Hazards Not Otherwise Classified

No Data Available

### Acute toxicity of 100% of the mixture is unknown

### **SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS**

CAS

0007446-20-0

Chemical Name ZINC SULFATE % By Weight 100%

### SECTION 4) FIRST-AID MEASURES

### Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

### Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes or until medical aid is available. If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 15 minutes, while holding the eyelids open.

### Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). 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. Wash contaminated clothing before re-use or discard.

### Ingestion

Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. 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

No Data Available

### **SECTION 5) FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

EXTINGUISHING MEDIA FOR SURROUNDING FIRES: Adapt extinguishing media to the environment.

#### **Unsuitable Extinguishing Media**

No unsuitable extinguishing media known.

#### Specific Hazards in Case of Fire

Non combustible.

### **Fire-fighting Procedures**

Isolate immediate hazard area and keep unauthorized personnel out. Move undamaged containers from immediate hazard area if it can be done safely.

### **Special Protective Actions**

Wear positive 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. Stay uphill and/or upstream. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ventilate closed spaces before entering.

### **Recommended Equipment**

Wear chemical protective clothing.

### **Personal Precautions**

Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing.

### **Environmental Precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Dike far ahead of liquid spill for later disposal.

### Methods and Materials for Containment and Cleaning up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

# **SECTION 7) HANDLING AND STORAGE**

### General

Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored All containers must be properly labelled.

#### Ventilation Requirements

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

### **Storage Room Requirements**

Store in dry, cool areas, out of direct sunlight and away from other sources of heat. Empty container retain residue and may be dangerous.

# SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye protection

Wear indirect-vent, impact and splash resistant goggles when working with liquids

### **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. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **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	CANsmg	CANsppm	CANtmg	CANtppm	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA Carcinogen	OSHA Tables (Z1, Z2, Z3)	OSHA Skin designation	ACGIH STEL (mg/m3)
No applicable chemical	-	-	-	-	-	-	-	-	-	-	-	-

Chemical Name	ACGIH STEL (ppm)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH TLV Basis	ACGIH Carcinogen	ACGIH Notations
No applicable chemical	-	-	-	-	-	-

# **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

# **Physical and Chemical Properties**

Density	16.44 lb/gal	
Specific Gravity	1.97	
Appearance	solid microcrystals	
Odor Description	Odorless	
Odor Threshold	N/A	
рН	4.5	
Melting/Freezing Point	100 °C	
Low Boiling Point	No Data Available	
High Boiling Point	N/A	
Flash Point	N/A - does not burn	
Vapor Pressure	N/A	
Vapor Density	N/A	
Evaporation Rate	N/A	
Upper Explosion Level	N/A	
Lower Explosion Level	N/A	
Water Solubility	170 g/100 ml	
Coefficient Water/Oil	Log P(oct) = -0.07	
Viscosity	N/A - solid	

# SECTION 10) STABILITY AND REACTIVITY

# Reactivity

On burning: release of toxic and corrosive gases/vapours (sulphur oxides, zinc oxide) and formation of metallic fumes. Violent exothermic reaction with (strong) bases.

# Stability

Stable under normal storage and handling conditions.

# **Conditions to Avoid**

High temperature. Incompatible materials. Moisture.

### Hazardous Reactions/Polymerization

Hazardous polymerization will not occur.

### **Incompatible Materials**

Strong basis.

### **Hazardous Decomposition Products**

No Data Available

# SECTION 11) TOXICOLOGICAL INFORMATION

### Likely Route of Exposure

Inhalation, ingestion, skin absorption

### **Acute Toxicity**

Harmful if swallowed

Likely routes of exposure : Skin and eye contact Acute toxicity : Oral: Harmful if swallowed. LD50 oral rat : 1260 mg/kg (RAT)

### **Aspiration Hazard**

No Data Available

### Carcinogenicity

No Data Available

### Germ Cell Mutagenicity

No Data Available

### **Reproductive Toxicity**

No Data Available

### **Respiratory/Skin Sensitization**

### No Data Available

Serious Eye Damage/Irritation

No Data Available

### **Skin Corrosion/Irritation**

No Data Available

### Specific Target Organ Toxicity - Repeated Exposure

No Data Available

### Specific Target Organ Toxicity - Single Exposure

No Data Available

# **SECTION 12) ECOLOGICAL INFORMATION**

### Toxicity

Very toxic to aquatic life

LC50 fish 2 : 4.6 ppm (LC50; 96 h; Salmo gairdneri) EC50 Daphnia 2 : 0.56 mg/l (EC50; 48 h)

# Mobility in Soil

No Data Available

### **Bio-accumulative Potential**

No Data Available

### Persistence and Degradability

No Data Available

# Other Adverse Effects

No Data Available

### **SECTION 13) DISPOSAL CONSIDERATIONS**

#### Waste Disposal

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. 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, provincial and local laws.

# SECTION 14) TRANSPORT INFORMATION

### **U.S. DOT Information**

UN number: UN3077

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulphate, heptahydrate)

Hazard class: 9

Packaging group: III

Hazardous substance (RQ): No Data Available Toxic-Inhalation Hazard: No Data Available

Marine Pollutant: No Data Available

Note / Special Provision: No Data Available

### **Transport Canada Information**

UN number: UN3077

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulphate, heptahydrate)

Hazard class: 9

Packaging group: III

Marine Pollutant: No Data Available

Transport in bulk (according to Annex II of MARPOL 73/78): No Data Available

Note / Special Provision: No Data Available

# **SECTION 15) REGULATORY INFORMATION**

CAS	Chemical Name	% By Weight	Regulation List
0007446-20-0	ZINC SULFATE	100%	DSL, TSCA

# **SECTION 16) OTHER INFORMATION**

### Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CANsmg or CANsppm - Canadian Short Term Exposure Level in mg/L or in ppm; CANtmg or CANtppm - Canadian Time Weighted Average in mg/L or in ppm; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; 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 (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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