



Tiger Chemical LLC
250 W. Douglas, Suite 150
Wichita, KS 67202
620-352-0690

HMIS Ratings	
Health	2
Flammability	0
Reactivity	0
PPE	C

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Tiger CSI-730B

UN# Not Applicable

Recommended Use Combination Scale, Corrosion, and Iron Control Product

Manufactured by: Dead Bison Inc
4101 W Green Oaks Blvd; Suite 305-597
Arlington, Texas 76016
Telephone: (817) 437-6438

Emergency Telephone Number (800) 424 9300 Chemtrec
(817) 437 6438 Product or company information

2. HAZARDS IDENTIFICATION

GHS Signal Word Danger

Pictogram



Hazard Statement Acidic liquid. Contact with the eyes may cause significant irritation or burns. May be harmful if absorbed through the skin, may cause skin sensitization. May be harmful if inhaled. Harmful if swallowed.

GHS Classification Acute toxicity - Category 3; h301
Acute toxicity - Category 3; h331
Serious eye damage/eye irritation - Category 1; h318
Skin sensitization - Category 1; h317
Reproductive toxicity - Category 2; h361d
Chronic aquatic hazard - Category 1;

GHS Label elements, including precautionary statements

Hazard statement(s) H301 - Toxic if swallowed.
H331 - Toxic if inhaled.
H318 - Causes serious eye damage.
H317 - May cause an allergic skin reaction.
H361d - Suspected of damaging the unborn child.

Precautionary statement(s) P261 - Avoid breathing mist.
P280 - Wear protective gloves and eye/face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P330 - Rinse mouth.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P311 - Call a POISON CENTRE or doctor/physician.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs, seek medical advice/attention.
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 CENTRE or doctor/physician.
P501 - Dispose of contents/container in accordance with local regulation.

HMIS Classification

Health hazard: 2
Chronic Health Hazard: *
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 2
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation Causes respiratory tract irritation.
Skin Toxic if absorbed through skin. Causes skin irritation.
Eyes Causes severe eye irritation.
Ingestion Toxic if swallowed.

Target Organs

Eyes, Kidney, Liver, Heart, Central nervous system

Emergency Overview

OSHA HAZARDS

In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Get medical advice/attention if you feel unwell. If exposed or concerned: Call a poison center/doctor.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula Mixture

Chemical name	CAS No.	Weight-%
Water	7732-18-5	50-70%
Tetrakis (hydroxymethyl)phosphonium sulfate (THPS)	55566-30-8	5-25%
Phosphonic acid, [[[phosphonomethyl]imino]bis[6,1-hexanediyl]nitrilobis(methylene)]]tetrakis-	0034690-00-1	5-15%
Quaternary amine	Mixture	5-15%
Ethylene Glycol	107-21-1	10-30%

4. FIRST AID MEASURES

General Advice	If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Skin Contact	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get

into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Conditions of flammability

This material will support combustion.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Products of combustion include smoke, toxic fumes, oxides of carbon to include carbon monoxide, phosphorous oxides, phosphine and sulfur oxides.

Further information

Use water spray to cool unopened containers.

Fire-fighting equipment/instructions

Self - contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat. Caution - material will support combustion!

Specific hazards arising from the chemical

Unusual Fire & Explosion Hazards: Closed containers can explode due to buildup of pressure when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Product will support combustion. Avoid contact with eyes. Do not wash to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal.

7. HANDLING AND STORAGE

Handling & Storage

Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. This material will support combustion. Keep this and other chemicals out of reach of children. Keep containers tightly closed in a cool, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in a closed container away from incompatible materials. Use care in handling/storage. Use appropriate container to avoid environmental contamination. Store in accordance with local/regional/national/international regulation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

No data available

Biological limit values ACGIH Biological Exposure Indices

No data available

Engineering Measures

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal Protective Equipment

Eye/Face Protection

Eye protection, such as chemical splash goggles and/or safety glasses, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and Body Protection

Neoprene, butyl or nitrile rubber gloves with cuffs. Coveralls, apron, or other equipment should be worn to prevent skin contact, safety eyewash station nearby. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds standard workplace limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134.

Hygiene Measures

Do not get this material in your eyes, on your skin, or on your clothing. Wash hands before breaks and immediately after handling the product. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid dark amber	Odor	Acid
Physical State	Liquid	Auto Ignition Temperature	NA
Flash Point	Closed cup: >200 °F	Pour Point	25°F (-3 °C)
Boiling Point/Range	No data available	Flammability Limits in Air pH (100%)	No data available
			3-5
Explosion Limits	No data available	Percent volatile	<9% estimated
Specific Gravity	1.024 (8.54 lbs/gallon)	Solubility in Water	Yes
Evaporation Rate	No data available	Vapor Pressure	No data available
Vapor Density	Approximately 1.4	Odor Threshold	No data available

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	Strong oxidizers, strong alkalis, strong acids and strong reducing agents
Conditions to Avoid	Avoid excessively high temperatures.
Hazardous Decomposition Products	Decomposition will not occur if handled and stored properly. In case of a fire, smoke, toxic fumes, oxides of carbon to include carbon monoxide, phosphorous oxides, phosphine and sulfur oxides will be produced.
Hazardous Polymerization	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information The product itself has not been tested.

Irritation Irritating to eyes, respiratory system and skin.

Component Information

Chemical name	Oral LD50	Dermal LD50	LC50 Inhalation
Water (7732-18-5)	No data available	No data available	No data available
Tetrakis (hydroxymethyl)phosphonium sulfate (THPS) (55566-30-8)	LD50 Oral – rat – 248 mg/kg	No data available	0.59 mg / L / 4H Inhalation – rat
Phosphonic acid, [[[phosphonomethyl]imino]bis[6,1-hexanediylnitrilobis(methylene)]]tetrakis- (CAS 0034690-00-1)	LD50 Oral – no information	LD50 Dermal no information	LC50 Inhalation – no information
Quaternary amine	LD50 Oral – no information	LD50 Dermal no information	LC50 Inhalation – no information
Ethylene Glycol (107-21-1)	LD50 Oral – rat – 4700 mg/kg	No data available	LC50 Inhalation – no information

Respiratory or skin sensitization
Respiratory sensitization Not assigned.
Skin sensitization Not assigned.
Germ cell mutagenicity Not assigned.

Chronic effects Some teratogenic effects, were observed in animal studies but are inconclusive.

Carcinogenicity Not Classified.

Reproductive toxicity Not Classified.

Specific target organ toxicity - single exposure Not Classified.

Specific target organ toxicity - repeated exposure Not Classified..

Aspiration hazard Not Classified.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Chemical name	Toxic to Algae	Toxic to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Water (7732-18-5)	no data available	no data available	no data available	no data available
Tetrakis (hydroxymethyl)phosphonium sulfate (THPS) (55566-30-8)	Algae EC50 0.16 mg/l 72 hr	LC50 Bluegill fish 93 mg/l, 96 hours Rainbow trout 96 hr EC50 119mg/L	no data available	EC50 - Daphnia magna (Water flea) 19.4 mg/L 48 hours
Phosphonic acid, [[[phosphonomethyl]imino]bis[6,1-hexanediylnitrilobis(methylene)]]tetrakis- (CAS 0034690-00-1)	no data available	no data available	no data available	no data available
Quaternary amine	no data available	no data available	no data available	no data available
Ethylene Glycol (107-21-1)	no data available	LC50 Rainbow Trout 18,500 mg/l – 96 hr	no data available	no data available

Bioaccumulation / Accumulation

Bioaccumulative potential no Data

Environmental effects Toxic to aquatic organisms.

Persistence and degradability Not available.

Additional ecological information Avoid release to the environment.

13.0 DISPOSAL CONSIDERATIONS

Disposal instructions Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a waste. Dispose of contents/container in accordance with local/regional/national/international regulations.
Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORTATION INFORMATION

DOT

Proper Shipping Name(s) Not Regulated
Reportable Quantity (RQ): Not Regulated
Hazard Class
UN#
Packing Group
Marine pollutant: No
Poison Inhalation Hazard: No

15. REGULATORY INFORMATION

U.S. Federal Regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)) **Not regulated.**

DEA Essential Chemical Code Number **Not regulated.**

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) **Not regulated.**

DEA Exempt Chemical Mixtures Code Number **Not regulated.**

CERCLA (Superfund) reportable quantity **None**

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
Section 302 extremely hazardous substance No

U.S. State Regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING: This product does not contain chemicals known to the State of California to cause developmental toxicity.

16. OTHER INFORMATION

Prepared By Greg Swindle

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Revision Date 07 May 2029

Reason for Revision Review no changes

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Unless updated, the Safety Data Sheet is valid until 07 May 2029