

TIGRIS™ 90/10+H

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: Tigris 90/10 + H
DESCRIPTION: Agricultural Adjuvant
COMPANY IDENTIFICATION: Tigris, LLC
P.O. Box 250
10025 Hwy. 264 Alternate
Middlesex, NC 27557

EMERGENCY CONTACT: In the event of chemical emergencies involving a spill, leak, fire exposure, or accident involving chemicals – call **CHEMTREC (800) 424-9300**

2. HAZARD IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute toxicity:

Oral – not classified

Dermal – not classified

Inhalation – not classified

Health Hazards

Skin irritation – causes mild skin irritation

Serious eye damage / eye irritation – causes eye irritation

Category

3

2b

GHS Label: No pictogram required

Signal Word: WARNING

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.

Avoid breathing fumes, mist, vapors, or spray.

Wash hands, face, and other affected areas thoroughly after handling.

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

Use only outdoors or in a well ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection

Avoid release to the environment.

Response:

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

Rinse mouth.

IF ON SKIN: Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water.

If skin irritation occurs: get medical advice or attention.

IF INHALED: Call a POISON CENTER/doctor/seek medical attention if you feel unwell. Remove person to fresh air and keep comfortable for breathing.

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	Composition
Proprietary blend of surfactants and formulation aids	Mixture	100%

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Immediately take off contaminated clothing and wash before reuse. Rinse skin immediately with plenty of water for 15-20 minutes. If skin irritation occurs, seek medical attention/advice. Call a poison control center or doctor for treatment advice.

INHALED: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. Call a poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have the person rinse mouth and sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.



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5. FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: water spray, dry chemical, foam or carbon dioxide (CO₂)

FIRE FIGHTING PROCEDURES: Fight fire from a safe distance and protected location. Fight fire upwind to avoid hazardous vapors and decomposing products. Heat may build pressure and rupture closed containers, spreading fire and increasing the risk of injury. Water may be ineffective in fire fighting. Use water spray/fog for cooling containers and firefighters. Notify proper authorities if liquid material enters the sewer or public waters.

FIRE FIGHTING EQUIPMENT: with any fire, wear self-contained breathing apparatus pressure demand, (MSHA/NIOSH approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel

PERSONAL PROTECTIVE EQUIPMENT: The proper personal protective equipment for incidental releases (such as 1 liter of product released in a well ventilated area), use impermeable gloves, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with the latest OSHA and/or ANSI recommendations

ENVIRONMENTAL PRECAUTIONS: material to prevent spreading of material. Close cap or valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate assistance

CONTAINMENT AND CLEANUP: Absorb spilled liquid with polypads or other absorbent materials. Caution – floor may be slippery, use care to avoid falling. Clean up with non-combustible absorbent (such as sand, soil, and so on). Shovel up and place all spill residue in suitable containers. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal

7. HANDLING AND STORAGE

HANDLING: Follow all SDS/label precautions when using this product. Do not reuse the container.

STORAGE: Store between 32F and 104F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:

PERMISSIBLE EXPOSURE LIMITS:	OSHA PEL
1,2,3-Propanetriol (mist)	15 mg/m ³

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash station and safety shower. General room ventilation is required. Maintain adequate ventilation, especially in confined areas.

Ventilation System: A system of local and / or general exhaust may be necessary to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can

control the emission of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed; however, use NIOSH/MSHA approved organic vapor respirator as necessary.

EYE PROTECTION: Wear OSHA standard chemical splash goggles.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be need. Use impervious gloves such as neoprene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow to amber liquid

Odor: Mild

pH (neat): 5-8

Melting/freezing point: < 32°F

Boiling point/Boiling range: Not Determined

Specific Gravity (20°C): 1.15 – 1.25

Flashpoint: > 93°C

Color (Gardner): Not Determined

Solubility in Water: Soluble

Viscosity: Not Determined

Odor Threshold: Not Determined

Evaporation Rate: Not Determined

Upper / Lower Flammability Limits: Not Determined

Vapor Pressure: Not Determined

Vapor Density: Not Determined

Partition Coefficient: Not Determined

Auto-Ignition Point: Not Determined

Decomposition Temperature: Not Determined

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable at ambient temperatures and atmospheric pressure.

CONDITIONS TO AVOID: Avoid oxidizing materials.

HAZARDOUS DECOMPOSITION: Can produce carbon oxides, hydrogen sulfide, nitrogen oxides, sulfur dioxide and hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

ORAL TOXICITY (rat LD₅₀): > 5,000 mg/kg

DERMAL TOXICITY (rabbit LD₅₀): > 5,000 mg/kg

Eye and Skin Contact – product is normally non-irritating, may cause mild irritation.

Inhalation – not determined.

Ingestion – product is not considered to be toxic, ingestion can result in gastrointestinal irritation and diarrhea.

Chronic exposure: no data available

Aggravation of pre-existing conditions: no data available

Specific Target Organ Toxicity – Single Exposure: no data available

Specific Target Organ Toxicity – Repeated Exposure: no data available

Germ Cell Mutagenicity: no data available

Reproductive Toxicity: no data available

Aspiration Hazard: no data available



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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not determined.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Do not contaminate water, food, or feed by disposal

PRODUCT DISPOSAL: Disposal of contents / container must be in compliance with local, state, and federal laws and regulations (contact local or state environmental agency for specific rules).

EMPTY CONTAINER: Empty containers must be handled properly due to product residue.

14. TRANSPORT INFORMATION

SHIPPING DESCRIPTION: Not regulated for ground transportation by US DOT.

15. REGULATORY INFORMATION

SARA TITLE III (Superfund Amendments and Reauthorization Act) applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65)

TRACE ELEMENTS: Trace ingredients (if any) are present in < 1% concentration (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute a significant additional hazard at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), US State equivalents, and Canadian Hazardous Material Identification System Standard (CPR 4)

16. OTHER INFORMATION

REASON FOR ISSUE: Initial

APPROVAL BY: Technical Services Manager

DISCLAIMER OF LIABILITY: Tigris, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of the use, handling and disposal of this product. Since actual use by others is beyond our control; no warranty, expressed or implied, is made by Tigris, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Tigris, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other materials or in any process.



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