

MATERIAL DATA SAFETY SHEET

BIG RIVERS AGRI SUPPLY



Updated: May 28, 2009
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Product Name: TRANSFUSION™ - fungicide enhancer

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Transfusion**
Manufactured for: BIG RIVERS AGRI SUPPLY
2760 KELLER ROAD
OWENSBORO, KY 42301

Emergency telephone number: (Chemtrec Information 24 hours) 1-800-424-9300
For MSDS, Product Safety, or (Technical Support on Product) 1-888-786-4537
Regulatory inquiries, call:

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% By Wt.</u>
Proprietary surfactant 1	Proprietary	NE	NE	45-55
Proprietary surfactant 2	Proprietary	NE	NE	40-50
Organic acid	Proprietary	NE	NE	2-5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING!

VERY TOXIC TO AQUATIC ORGANISMS

MAY BE HARMFUL IF SWALLOWED

COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FIRE.

MAY BE HARMFUL TO THE ENVIRONMENT IF RELEASED IN LARGE QUANTITIES.

HMIS Hazard Rating:

2 Health Hazard Rating
2 Flammability Rating
0 Reactivity Rating
D Personal Protection

Primary Routes of Exposure:

Eyes: **Yes**

Skin: **Yes**

Oral: **Unlikely**

Inhalation: **Unlikely**

Signs and Symptoms of Exposure:

Eye contact: Prolonged and repeated contact of concentrated product will cause irritation and reddening.

Skin contact: Prolonged or repeated skin contact can also result in irritation.

Inhalation: May result in respiratory irritation.

Ingestion: May result in nausea, abdominal discomfort, vomiting and mucosal irritation.

4. FIRST AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL EXPOSURE

Eye Exposure: Check for and remove contact lenses. Immediately flush eyes with water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Exposure: Wash effected area with plenty of soap and water. Cold water may be used. Get medical attention if irritation develops.

Inhalation: Move person to fresh air. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration. Get emergency medical help immediately.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give fluids or force vomiting if the person is unconscious, is having convulsions or has no gag reflex. If large quantities are swallowed, get emergency medical help immediately.

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5. FIRE-FIGHTING MEASURES

FIRE HAZARD DATA:

Flammability:	Combustible	LEL:	UEL:
Auto-ignition temperature:	The lowest known value is >150°C (302°F) for Proprietary Surfactant 1		
Flash Point:	CLOSED CUP 93°C (199.4°F) Pensky-Martens		
Extinguishing Media:	Small fires: use DRY chemical powder. Large fires: use water spray, foam, or fog.		
Special Fire Fighting Procedures:	Wear full protective clothing including self-contained breathing apparatus to protect against possible toxic fumes from products and surrounding fire.		
Additional Fire and Explosive Data:	None.		

6. ACCIDENTAL RELEASE MEASURES

Small Spill and Leak: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill and Leak: Keep away from heat. Keep away from ignition sources. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and evacuate through sanitary system.

7. HANDLING, STORAGE & SPILLAGE OR LEAK PROCEDURES

Precautions to be Taken in Handling: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire minimize ignition sources.

Precautions to be Taken in Storage: Keep containers in a cool, well ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Note: When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed.

Eye Protection: Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.

Skin Protection: Wear coveralls and boots to minimize skin contact. As precautions, wash hands and face with mild soap and water before eating, drinking, smoking or using restroom. After each shift, clean all protective equipment, wash work clothes, and shower.

Inhalation Protection: Not required under normal use conditions with good ventilation. Protect against spray mists.

Other Protection: Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk or the work area per ANSI Z358.1-1990.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance & Odor:	Amber liquid with bland odor.
Boiling Point:	>100°C (212°F).
pH:	1% solution in water is neutral.
Solubility in Water:	Soluble.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Incompatibility:	Reactive with oxidizing agents and acids.
Hazardous Decomposition Products:	Burning may produce oxides of carbon and other substances.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Excessive heat.

11. TOXICOLOGICAL INFORMATION

No toxicological data is available for this product.

12. ECOLOGICAL INFORMATION

No ecological data is available for this product.

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13. DISPOSAL CONSIDERATIONS

Disposal Methods: Recycle or rework material if at all possible. Incinerate material at an approved facility. Treat at an acceptable waste treatment facility, or municipal waste treatment plant after proper testing and approval waste samples in compliance with applicable federal, state and local environmental regulations.

Container Reuse: An empty container can contain product residue, and should not be reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse.

14. TRANSPORT INFORMATION

DOT Status (Highway and rail): Not regulated.

IATA Status (Air): Not regulated.

15. REGULATORY INFORMATION

AICS (Australia): Components listed.

DSL (Canada): Components listed.

EINECS (Europe): Components listed.

TSCA: Components listed.

WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, BIG RIVERS AGRI SUPPLY MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

N/R—Not Rated

N/D—Not Determined

N/A—Not Applicable

N/E—Not Established