

# MATERIAL DATA SAFETY SHEET

BIG RIVERS AGRI SUPPLY



Updated: May 28, 2009  
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**Product Name: ASSYST™ - water conditioner + activator**

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Assyst**  
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>
Monocarbamide dihydrogen sulfate	21351-39-3		N/E	35–40%
Agricultural surfactant	Proprietary		N/E	15–20%
Alkoxylated fatty alcohol	Proprietary		N/E	10–15%
Petroleum distillate (hydrotreated)	64742-55-8		5 mg/m <sup>3</sup> as Oil Mist (TWA); 10 mg/m <sup>3</sup> (STEL)	20–30%

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

HMIS Hazard Rating:

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

### Primary Routes of Exposure:

Eyes: **Y** Skin: **Y** Oral: **Y** Inhalation: **N**

**Signs and Symptoms of Exposure:** NOTE: Corrosive Material.

Eye contact: Contact with eyes can cause severe burns, permanent damage & possible blindness.  
Skin contact: Contact with skin may cause severe irritation, pain and possibly burns with prolonged contact.  
Inhalation: Aspiration into lungs may occur during ingestion or vomiting resulting in lung injury.  
Ingestion: Harmful or fatal if swallowed - causes severe burns of mouth, throat & stomach.

**Signs and Symptoms of Overexposure:** Chronic local effect may consist of destruction of the skin or of primary irritant dermatitis.

**Medical Conditions Aggravated by Overexposure:** Pre-existing skin, eye and respiratory disorders may be aggravated by overexposure.

**Note:** The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

## 4. FIRST AID MEASURES

### FIRST AID MEASURES FOR ACCIDENTAL EXPOSURE

**Eye Exposure:** Flush eyes with water for at least 15 minutes and call a physician immediately.

**Skin Exposure:** Wash affected areas with large amounts of soap and water. If irritation persists call physician.

**Inhalation:** Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.

**Ingestion:** Dilute by drinking water, then induce vomiting. Call physician immediately.

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## 5. FIRE-FIGHTING MEASURES

### FIRE HAZARD DATA:

Flammability:	N/A	LEL:	N/A	UEL:	N/A
Auto-ignition temperature:	N/D				
Flash Point:	>200°F (none to boiling)				
Extinguishing Media:	Product is non-combustible. Water Spray (Fog), Dry Chemical, CO <sub>2</sub> , or Foam may be used where product is stored.				
Special Fire Fighting Procedures:	Do not enter confined fire-space s without protective clothing and self-contained air supply.				
Additional Fire and Explosive Data:	None.				

## 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** CORROSIVE! Spills can create an extreme slip hazard. Stop leak if you can do it without risk. Restrict entry to spill area and dike large spills to prevent run off. Mop, pump or take up with inert absorbent and reclaim for reuse, recycle or proper disposal. Diluted material can be more corrosive than concentrate. Flush area with a lot of water.

**Waste Disposal Method:** This product classified as an oil under Section 311 of Clean Water Act. Discharge to surface waters that cause a sheen must be reported to the National Response Center (1-800-424-8802).

## 7. HANDLING AND STORAGE

**Precautions to be Taken in Handling:** WARNING: Corrosive liquid. Handle all containers carefully. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

**Precautions to be Taken in Storage:** Store away from all oxidizers. Keep container closed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye Protection:** Safety glasses/goggles and face shield.

**Skin Protection:** Rubber/PVC gloves. Protective clothing appropriate to minimize contact during specific operations.

**Inhalation Protection:** NIOSH respirator is not adequate. Avoid misting conditions. Use with adequate ventilation to control acid TLV.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance & Odor:	Clear brown viscous liquid with characteristic odor
Boiling Point:	>250°F
pH:	<1.0 ± 0.5
Solubility in Water:	Emulsifiable (or Dispersible)
Specific Gravity	1.12 ± 0.005
Vapor Density	N/D
Vapor Pressure	N/D
Evaporation Rate (vs. H <sub>2</sub> O)	Slower

## 10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Incompatibility:	Oxidizing agents, bases, reducing agents, metals, leather, nylon.
Hazardous Decomposition Products:	Burning may produce carbon monoxide and/or carbon dioxide.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Do not mix with strong bases.

## 11. TOXICOLOGICAL INFORMATION

Health studies have shown that many petroleum hydrocarbons pose potential human risks which may vary from person to person. As a precaution, exposure to liquid, vapors, mists & fumes should be minimized.

## 12. ECOLOGICAL INFORMATION

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## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Dispose of in an approved waste facility according to Federal, State and local regulations.

**Container Reuse:** An empty container can contain product residue, and should be not 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 if transported by motor vehicle or railcar (49 CFR 173.154).

## 15. REGULATORY INFORMATION

**SARA HAZARD:** No.

**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