



## Safety Data Sheet

### 1 – PRODUCT IDENTIFICATION

**PRODUCT NAME:** .....**AC-150**  
**PRODUCT NUMBER:**.....AC150  
**OTHER MEANS OF IDENTIFICATION:**..... Brown Liquid  
**RECOMMENDED USE:** .....For industrial and manufacturing use only.  
**RESTRICTIONS ON USE:** .....Use only as directed.

**COMPANY:** .....CHEMTRON CORPORATION  
3500 Harry S. Truman Blvd  
St. Charles, MO 63301  
636-940-5445 (Mon-Fri., 8:00-4:00)  
www.chemtroncorporation.com

**EMERGENCY PHONE:**.....(800) 424-9300 (CHEMTREC)  
**REVISION NUMBER:**.....February 25, 2019

### 2 – HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** .....Use reasonable care in handling.

**CLASSIFICATION 29 CFR 1910.1200:** ..... Product is hazardous by OSHA criteria.

Skin Corrosion/irritation: Category 1  
Serious eye damage/eye irritation Category 1  
Carcinogenicity Category 1A  
Hazardous to the aquatic environment, acute hazard Category 3  
Hazardous to the aquatic environment long-term hazard Category 3



**GHS SIGNAL WORD:**.....**Danger**

**GHS HAZARD STATEMENTS:** ..... H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage



### Safety Data Sheet

H350: May cause cancer

H402: Harmful to aquatic life

H412: Harmful to aquatic life with long lasting effects

**GHS PRECAUTIONARY STATEMENTS:** .....P201: Obtain special instructions before use

P202: Do not handle until all safety precautions have been read and understood

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash ... thoroughly after handling, wash gloves and contaminated surfaces.

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection; when conditions warrant use, add face shield, apron, and/or rubber boots.

### 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Ferric Sulfate	60-70	10028-22-5
Sulfuric Acid	<0.2	7664-93-9

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4 – FIRST-AID MEASURES

**INHALATION:** .....Move to fresh air, call a doctor.

**INGESTION:**.....Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**EYES:**.....Do not rub eye. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**SKIN:** .....Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

**DELAYED EFFECTS:**.....Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**IMMEDIATE OR SPECIAL TREATMENT REQUIREMENTS:** Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.



## Safety Data Sheet

### 5 – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:**.....Water fog, foam, dry chemical powder, carbon dioxide. Do not use water jet as an extinguisher, as this will spread the fire.

**SPECIAL FIRE FIGHTING PROCEDURES:**..... During fire, gases hazardous to health may be formed. Use self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. Use water spray to cool unopened containers.

### 6 – ACCIDENTAL RELEASE MEASURES

**SPILL PROCEDURES:** .....This product is miscible in water. Should not be released into the environment. Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Collect dust using a vacuum cleaner equipped with HEPA filter.

**Large Spills:** Wet down with water and dike for later disposal. Shovel the material into waste container. Avoid the generation of dusts during clean-up. Prevent product from entering drains. Following product recovery, flush area with water.

**Small Spills:** Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**PERSONAL PRECAUTIONS:**....Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

### 7 – HANDLING and STORAGE

**STORAGE:**.....Store locked up. Store in original; tightly closed container. Store in a well-ventilated location. Store away from incompatible materials.

**HANDLING:** .....Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Should be handled in a closed system, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.



## Safety Data Sheet

### 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE LIMITS:** .....Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

**PROTECTIVE CLOTHING:** .....Chemical respirator with organic vapor cartridge, full face piece, dust and mist filter. Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full face piece, dust and mist filter. Wear appropriate thermal protective clothing, when necessary.

**ADDITIONAL MEASURES:** .....Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants

INGREDIENT	SOURCE & PARAMETER	EXPOSURE LIMIT
Sulfuric Acid	PEL	1 mg/m <sup>3</sup>
Sulfuric Acid	TWA	0.2 mg/m <sup>3</sup>
Ferric Sulfate	TWA	1 mg/m <sup>3</sup>

### 9 – PHYSICAL / CHEMICAL PROPERTIES

**APPEARANCE/ORDER:** .....Brown liquid  
**ODOR:** .....Acidic  
**BOILING POINT:** .....> 212 F (> 100 C)  
**VAPOR PRESSURE:** .....Not available.  
**VAPOR DENSITY (AIR=1):** .....Not Available.  
**SPECIFIC GRAVITY:**..... 1.38-1.59  
**pH:**.....<2  
**SOLUBILITY IN WATER:** .....Soluble in water.  
**FLAMMABILITY:**.....Not available.  
**EVAPORATION RATE:** .....Not available.  
**MELTING POINT/FREEZING POINT:** .....Not available.



## Safety Data Sheet

### 10 – STABILITY and REACTIVITY

**REACTIVITY:**.....Reacts violently with strong alkaline substances. This product may react with reducing agents.  
**STABILITY:** .....Material is stable under normal conditions.  
**HAZARDOUS POLYMERIZATION:** ..... Hazardous polymerization does not occur.  
**INCOMPATIBILITY:**.....Bases. Reducing agents. Mineral acids. Alkalis'. Carbon steel. Brasses. Nylon.  
**HAZARDOUS REACTIONS:** .....Do not mix with other chemicals. Contact with incompatible materials.  
**HAZARDOUS DECOMP:** .....Sulphur oxides.

### 11 – TOXICOLOGICAL INFORMATION

**LIKELY ROUTES OF EXPOSURE:** ..... Dust may irritate respiratory system. Prolonged inhalation may be harmful. Causes severe skin burns. Causes serious eye damage. Causes digestive tract burns.

**TOXICOLOGICAL CHARACTERISTICS:**..... Abdominal pain. Burning pain and severe corrosive skin damage. Diarrhea. Nausea, vomiting. Causes serious eye damage. Dusts may irritate the respiratory tract, skin and eyes.

**LISTED CARCINOGEN:** .....May cause cancer.

**DELAYED EFFECTS:**.....Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**IMMEDIATE EFFECTS:**.....Irritation or burns to eyes, skin, or other tissues.

**NUMERICAL MEASURES OF TOXICITY:**..... No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

INGREDIENTS	DATA
Ferric Sulfate	Inhalation LC50 Guinea pig 14 mg/I, 8 hours est.
Sulfuric Acid	Inhalation LC50 Guinea pig 0.018 mg/I, 8 hours
Sulfuric Acid	Inhalation LC50 Rat 347 mg/I, 1 hour
Sulfuric Acid	Oral LD50 Rat 2140 mg/kg

### 12 – ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE AND DISTRIBUTION:** Harmful to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant Eco toxicity upon exposure to aquatic organisms and aquatic systems.

PRODUCT	DATA
AC150	LC50 Daphnia Magna 48hr >5000 mg/L LC50 Fathead Minnow 96hr > 5000 mg/L

**PERSISTENCE AND DEGRADABILITY:** ..... No data is available on the degradability of this product.

**BIOACCUMULATIVE POTENTIAL:** ..... No data available.

**MOBILITY IN SOIL:** ..... No data available.

**OTHER ADVERSE EFFECTS:**.. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component



## Safety Data Sheet

### 13 –DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:**.....Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner

### 14 – TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** .....Corrosive Liquid, acidic, inorganic, n.o.s (ferric sulfate)  
**HAZARD CLASS:** ..... 8  
**UN/NA NUMBER:**.....UN3264  
**PACKAGING GROUP:**.....III



**ENVIRONMENTAL HAZARDS:**..... Harmful to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant Eco toxicity upon exposure to aquatic organisms and aquatic systems.  
**TRANSPORT IN BULK:**.....Product container meets or exceeds DOT requirements.  
**SPECIAL PRECAUTIONS:**.....Read safety instructions, SDS and emergency procedures before handling.

### 15 - REGULATIONS

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SRA Title III Chemical Listings:

**TSCA STATUS:** .....All components of this product are in compliance with inventory listing requirements.  
**SECTION 312:** .....Hazardous Chemical  
**SARA SECTION 313:** .....Not regulations  
**US EPA CERCLA:** .....Ferric Sulfate (CAS 10028-22-5) Listed.  
Sulfuric Acid (CAS 7664-93-9) .....Listed.



## Safety Data Sheet

### 16 – OTHER INFORMATION

#### NFPA HAZARD RANKING

HEALTH	FIRE	REACTIVITY	SPECIAL
3	0	0	

#### HMIS HAZARD RANKING

HEALTH	FIRE	REACTIVITY	PPE
3	0	0	

This data is offered in good faith and believed to be accurate, but it is for the users to satisfy themselves of the product suitability for their own purpose. There is no warranty expressed or implied. The recommended hygiene and safe handling procedures are believed to be generally applicable.