

SAFETY DATA SHEET

DATE PREPARED: 8/2/2015

EMERGENCY CONTACT:

CHEMTREC 800-424-9300

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FERRIC BIND **PRODUCT NUMBER:** 8806 SUPERCEDED DATE: 1/2/2015 **PRODUCT FAMILY:** FLOCCULANT MANUFACTURER: KO MANUFACTURING, INC 2720 E. DIVISION STREET SPRINGFIELD, MO 65803 417-866-8000 **INFORMATION USE:** ACIDIC FLOC AGENT 2. HAZARD IDENTIFICATION **DOT HAZARD CLASSIFICATION:** CORROSIVE LIQUID. **SIGNAL WORD:** DANGER!

ROUTE OF EXPOSURE: EYE CONTACT, SKIN CONTACT, INGESTION, INHALATION. GHS HEALTH CLASSIFICATION: ACUTE TOXICITY, ORAL 4

SKIN CORROSIVE 1C

EYE DAMAGE/IRRITATION 1

GHS LABEL H290 - May be corrosive to metal.

ELEMENTS: H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

- P234 Keep only in original container.
- P260 Do not breathe dust/fume/gas/vapours/spray.
- P264 Wash exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/boots/clothing/eye protection/face protection.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P351 - Rinse cautiously with water for several minutes.

P352 - Wash with plenty of soap and water.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 POISON CENTER or doctor/physician.
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material damage.
- P405 Store locked up.
- P406 Store in corrosive resistant HDPE plastic container.
- P501 Dispose of content/container in accordance with local/national regulations.

3.COMPOSITION IDENTIFICATION

INGREDIENTS: FERRIC CHLORIDE WATER

C.A.S. NUMBER: 7705-08-0 7732-18-5

PERCENT: <50.0% <80.0%





PRODUCT NAME: FERRIC BIND **PRODUCT NUMBER:** 8806

DATE PREPARED: 8/2/2015 SUPERCEDED DATE: 1/2/2015

4. FIRST AID MEASURES - CONTINUED

SKIN CONTACT: WASH EXPOSED SKIN THOROUGHLY AFTER HANDELING. REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. GET MEDICAL ADVICE/ATTENTION.
INGESTION: RINSE MOUTH. DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER TO DRINK.

INHALATION: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. CALL A POISON CENTER OR PHYSICIAN IMMEDIATELY.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: NON FLAMMABLE.FLASH POINT: DOES NOT FLASH.SUITABLE EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM OR CARBON DIOXIDE, WATER SPRAY.UNSUITABLE EXTINGUISHING MEDIA: NOT ESTABLISHED.SPECIFIC HAZARDS ARISINGNONE KNOWN.FROM THE CHEMICAL:WEAR SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND MSHA/NIOSHPRECAUTIONS FOR FIREFIGHTERS:APPPROVED) AND FULL PROTECTIVE GEAR.6. ACCIDENTAL RELEASE MEASURES

CALL A POISON CENTER OR PHYSICIAN IMMEDIATELY.

PERSONAL PRECAUTIONS: AVOID CONTACT WITH EYES AND SKIN. SPILL AREA MAY BE SLIPPERY. WEAR PROPER PROTECTIVE EQUIPMENT WHEN DEALING WITH RELEASE.

ENVIRONMENTAL PRECAUTIONS: CONTAIN SPILL TO AVOID RELEASE TO THE ENVIRONMENT. KEEP CONTAINER TIGHTLY CLOSED.

METHODS FOR CONTAINMENTDIKE AND CONTAIN SPILL. COLLECT LIQUID WITH AN INERT ABSORBENT ANDAND CLEAN-UP:DIKE AND CONTAINER FOR REUSE OR DISPOSAL.

7. HANDLING AND STORAGE

HANDLING: HANDLE WITH CARE AND AVOID CONTACT WITH EYES AND SKIN. ALWAYS WEAR PROPER CHEMICAL RESISTANT PROTECTIVE EQUIPMENT 29CFR1910.132-138. WASH THOROUGHLY AFTER HANDLING.

STORAGE: AVOID RELEASE TO THE ENVIRONMENT. STORE IN LOCKED STORAGE USING CORROSIVE RESISTANT CONTAINERS. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: NONE REQUIRED UNDER NORMAL USE.

EYE / FACE PROTECTION: CHEMICAL SAFETY GLASSES.

SKIN PROTECTION: CHEMICAL RESISTANT GLOVES.

THRESHOLD LIMIT VALUE (TLV): NOT ESTABLISHED.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID.

APPEARANCE:REDISH BROWN LIQUID.ODOR:ACIDIC ODOR.

BOILING POINT: NOT ESTABLISHED.

FREEZING POINT: NOT ESTABLISHED.

SPECIFIC GRAVITY: 1.47

pH (1%): 1.0

EVAPORATION RATE: NOT ESTABLISHED.

FLASH POINT: DOES NOT FLASH.

LOWER FLAMMABILITY/EXPLOSIVE LIMIT: NOT ESTABLISHED.

UPPER FLAMMABLE/EXPLOSIVE LIMIT: NOT ESTABLISHED.

AUTO-IGNITION TEMPERATURE: NOT ESTABLISHED.

VISCOSITY: NOT ESTABLISHED. REALITIVE DENSITY: 12.3 LBS./GL. SOLUBILITY: SOLUBLE. VAPOR PRESSURE: NOT ESTABLISHED. VAPOR DENSITY: NOT ESTABLISHED. DECOMPOSITION NOT ESTABLISHED. TEMPERATURE: PARTICAL COEFFICIENT: NOT ESTABLISHED. N-OCTANOL/WATER

CHEMICAL STABILITY: STABLE AT NORMAL TEMPERATURES AND PRESSURE.

CONDITIONS TO AVOID: HEAT, FLAMES OR SPARKS.

INCOMPATIBLE MATERIALS: SOFT METALS. STRONG ALKALIES. DO NOT MIX WITH OTHER CHEMICALS. HAZARDOUS DECOMPOSITION PRODUCTS: HYDROGEN CHLORIDE, HYDROGEN GAS

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION/CORROSION: CORROSIVE TO EYES AND SKIN. EFFECTS OF SHORT-TERM EXPOSURE: IRRITATION OR BURNS TO EYES, SKIN AND MOUTH. **INGESTION:** CAUSES BURNS TO MOUTH, THROAT AND STOMACH. LD-50: NOT ESTABLISHED.

12.ECOLOGICAL IDENTIFICATION

ECOTOXICITY: NOT ESTABLISHED. PERSISTENCE AND DEGRADABILITY: BIODEGRADABLE. BIOACCUMULATION/ACCUMULATION NOT ESTABLISHED.

13.DISPOSAL CONDITIONS

THIS MATERIAL WHEN DISCARDED IS A HAZARDOUS WASTE DEFINED BY 40CFR261. MATERIALS ARE TO BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL. STATE AND LOCAL REGULATIONS.

14. TRANSPORTATION INFORMATION

GROUND SHIPPING INFORMATION: UN2582, FERRIC CHLORIDE, SOLUTION, 8, PGIII WATER SHIPPING INFORMATION: UN2582, FERRIC CHLORIDE, SOLUTION, 8, PGIII **AIR SHIPPING INFORMATION:** UN2582, FERRIC CHLORIDE, SOLUTION, 8, PGIII **15. REGULATORY INFORMATION**

US FEDERAL REGULATIONS: TSCA (TOXIC SUBSTANCE CONTROL ACT) ALL COMPONENTS LISTED ON TSCA INVENTORY. SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

313 REPORTABLE INGREDIENTS

CAS NUMBER:

PERCENT:

NONE.

STATE REGULATIONS: CALIFORNIA PROPOSITION 65 -THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS CURRENTLY LISTED

INTERNATIONAL REGULATIONS: CLASS E CORROSIVE UNDER CANADIAN WHMIS

SECTION 15 NOTES: NONE

16. OTHER INFORMATION

PHONE NUMBER: 417-866-8000

DATE OF PREPARATION: 8/2/2015

This document is generated for the purpose of distributing health, safety and environmental data. It is not a specification sheet nor should any displayed data be construed as a specification. The information provided in this Safety Data Sheet has been compiled from experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Safety Data Sheets at any time as new techincal information becomes available. The information contained herein is furnished without warranty of any kind.