

# SAFETY DATA SHEET

# **1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: TITRANT A1 PRODUCT NUMBER: A1 PRODUCT FAMILY: MILD ACID MANUFACTURER: KO MANUFACTURING, INC 2720 E. DIVISION STREET SPRINGFIELD, MO 65803 417-866-8000 INFORMATION USE: ACIDIC TITRANT 2. HAZARD IDENTIFICATION DATE PREPARED: 1/2/2020 SUPERCEDED DATE: 8/28/2018

> EMERGENCY CONTACT: CHEMTREC 800-424-9300

 DOT HAZARD CLASSIFICATION:
 NOT REGULATED BY D.O.T.

 SIGNAL WORD:
 DANGER!

 ROUTE OF EXPOSURE:
 EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION

 GHS HAZARD CLASSIFICATION: SERIOUS EYE DAMAGE/ EYE IRRITATION 1

 SKIN IRRITANT 2

PICTOGRAMS



 GHS LABEL
 H315 - Causes skin irritation.

 ELEMENTS:
 H318 - Causes serious eye damage.

 P264 - Wash exposed skin thoroughly after handling.

 P280 - Wear protective gloves/eye protection/face protection.

 P313 - Get medical advice/attention.

 P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

 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.

 P332+ P313 - If skin irritation occurs: Get medical advice/attention.

 P362 - Take off contaminated clothing and wash before reuse.

# **3.COMPOSITION IDENTIFICATION**

**INGREDIENTS:** HYDROCHLORIC ACID WATER **C.A.S. NUMBER:** 7647-01-0 7732-18-5 PERCENT: <1.0% Balance

# 4. FIRST AID MEASURES

**EYE CONTACT:** RINSE WITH FRESH WATER FOR 15 MINUTES, LIFTING EYELIDS OCCASIONALLY. CALL A PHYSICIAN IF IRRITATION PERSISTS.

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## 4. FIRST AID MEASURES - CONTINUED

**SKIN CONTACT:** RINSE WITH PLENTY OF FRESH WATER AND REMOVE CONTAMINATED CLOTHING IMMEDIATELY. CALL A PHYSICIAN IF IRRITATION PERSISTS.

**INGESTION:** RINSE MOUTH WITH FRESH WATER. DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER. DO NOT GIVE ANYTHING BY MOUTH IF UNCONSCIOUS.

**INHALATION:** IF OVERCOME BY EXPOSURE, REMOVE VICTIM TO FRESH AIR IMMEDIATELY. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. CALL A 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 ARISING NONE KNOWN.

FROM THE CHEMICAL:

**PROTECTIVE EQUIPMENT AND**WEAR SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND MSHA/NIOSH**PRECAUTIONS FOR FIREFIGHTERS:**APPPROVED) AND FULL PROTECTIVE GEAR.

#### 6. ACCIDENTAL RELEASE MEASURES

**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 WHEN NOT IN USE.

METHODS FOR CONTAINMENT<br/>AND CLEAN-UP:COLLECT FOR DISPOSAL USING AN INERT ABSORBENT MATERIAL AND TRANSFER TO A<br/>CONTAINER FOR REUSE OR DISPOSAL.

## 7. HANDLING AND STORAGE

**HANDLING:** SPILLED MATERIAL MAY BE SLIPPERY. ALWAYS WEAR PROPER PROTECTIVE EQUIPMENT WHEN HANDLING. WASH THOROUGHLY AFTER HANDLING.

**STORAGE:** STORE IN A COOL, DRY PLACE. KEEP OUT OF REACH OF CHILDREN. KEEP LID TIGHTLY CLOSED WHEN NOT IN USE.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:NONE REQUIRED UNDER NORMAL USE.EYE / FACE PROTECTION:CHEMICAL SAFETY GLASSES.SKIN PROTECTION:CHEMICAL RESISTANT GLOVES AND APRONTHRESHOLD LIMIT VALUE (TLV):NOT ESTABLISHED.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIOUID. VISCOSITY: NOT ESTABLISHED. **APPEARANCE:** CLEAR LIQUID. **REALITIVE DENSITY: 8.34 LBS./GL. ODOR:** ACID SCENT. **SOLUBILITY:** SOLUBLE. **BOILING POINT:** NOT ESTABLISHED. VAPOR PRESSURE: NOT ESTABLISHED. FREEZING POINT: NOT ESTABLISHED. VAPOR DENSITY: NOT ESTABLISHED. SPECIFIC GRAVITY: 1.01 DECOMPOSITION NOT ESTABLISHED. **TEMPERATURE:** pH (1%): 3.0-3.5 PARTICAL COEFFICIENT: NOT ESTABLISHED. **EVAPORATION RATE:** LESS THAN 1. **N-OCTANOL/WATER** FLASH POINT: DOES NOT FLASH. LOWER FLAMMABILITY/EXPLOSIVE LIMIT: NOT ESTABLISHED. UPPER FLAMMABLE/EXPLOSIVE LIMIT: NOT ESTABLISHED.

AUTO-IGNITION TEMPERATURE: NOT ESTABLISHED.

# PRODUCT NAME: TITRANT A1 PRODUCT NUMBER: A1 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE.

CONDITIONS TO AVOID: NONE KNOWN.

**INCOMPATIBLE MATERIALS:** DO NOT MIX WITH OTHER CHEMICALS. **HAZARDOUS DECOMPOSITION PRODUCTS:** CARBON MONOXIDE AND DIOXIDE FROM THERMAL DECOMPOSITION.

# **11. TOXICOLOGICAL INFORMATION**

EYE IRRITATION/CORROSION:SERIOUS EYE DAMAGE/ EYE IRRITATIONEFFECTS OF SHORT-TERM EXPOSURE: DIRECT EYE CONTACT MAY CAUSE SEVERE IRRITATION OR BURNS.INGESTION:SEVERE IRRITATION OR BURNS TO MOUTH, THROAT, STOMACH.LD-50:NOT ESTABLISHED.CARCINOGENICITY:NOT CONSIDERED A CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA

# **12.ECOLOGICAL IDENTIFICATION**

ECOTOXICITY: NOT ESTABLISHED.

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

# **13.DISPOSAL CONDITIONS**

MATERIALS ARE TO BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

# **14. TRANSPORTATION INFORMATION**

GROUND SHIPPING INFORMATION: CLEANING, SCOURING, OR WASHING COMPOUNDS, N.O.S., LIQUID. WATER SHIPPING INFORMATION: CLEANING, SCOURING, OR WASHING COMPOUNDS, N.O.S., LIQUID. AIR SHIPPING INFORMATION: CLEANING, SCOURING, OR WASHING COMPOUNDS, N.O.S., LIQUID. 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** NONE

CAS NUMBER:

PERCENT:

TIONE.

**STATE REGULATIONS:** 

# **INTERNATIONAL REGULATIONS:** CLASS E CORROSIVE UNDER CANADIAN WHMIS

SECTION 15 NOTES: NONE.

# **16. OTHER INFORMATION**

# **PHONE NUMBER: 417-866-8000**

# DATE OF PREPARATION: 1/2/2020

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