# SAFETY DATA SHEET

 DATE: June 24, 2025

CONTINENTAL CHEMICAL CO. EMERGENCY PHONE

4920 E. WASHINGTON BLVD. TRANSPORTATION:CHEMTREC: 800-424-9300

COMMERCE CA. 90040 NON-TRANSPORTATION: HJB INC: 323-268-1288

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SECTION I GENERAL INFORMATION

PRODUCT NAME: **CIP ACID**

**MANUFACTURER:** CONTINENTAL CHEMICAL

**HMIS: 301 J**

# SECTION II- HAZARDS IDENTIFICATION

**CLASSIFICATION**

GHS CLASSIFICATION: SKIN CORROSION (CATEGORY 1A)

 SERIOUS EYE DAMAGE (CATEGORY 1)

 ACUTE AQUATIC TOXICITY (CATEGORY 3)

**GHS LABEL ELEMENTS**

PICTOGRAM: 

SIGNAL WORD: DANGER

HAZARD STATEMENT: H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

 H402: HARMFUL TO AQUATIC LIFE

PRECAUTIONARY STATEMENTS: P280:WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

 P303/P361/P353: **IF ON SKIN OR HAIR:** REMOVE ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

 P305/P351/P338: **IF IN EYES:** RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES. CONTINUE RINSING.

 P313: GET MEDICAL ATTENTION.

HMIS CLASSIFICATION: HEALTH HAZARD: 3

 FLAMMABILITY: 0

 PHYSICAL HAZARDS: 1

NFPA RATING: HEALTH HAZARD: 3

 FIRE: 0

 REACTIVITY HAZARD: 1

**POTENTIAL HEALTH EFFECTS**

INHALATION: MAY BE HARMFUL IF INHALED. MATERIAL IS EXTREMELY DESTRUCTIVE TO THE TISSUE OF THE MUCOUS MEMBRANE AND UPPER RESPIRATORY TRACT.

SKIN: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSE SEVERE SKIN BURNS.

EYES: CAUSE SEVERE EYE BURNS.

INGESTION: TOXIC IF SWALLOWED. DO NOT INGEST.

SECTION III CHEMICAL COMPOSITION

**COMPONENT** **CAS#** **CONCENTRATION**

PHOSPHORIC ACID 7664-38-2 15 - 40%

NITRIC ACID 7697-37-2 15 - 40%

# SECTION IV FIRST AID MEASURES

IF INHALED: IF INHALED, MOVE PERSON INTO FRESH AIR. IF NOT

 BREATHING, GIVE ARTIFICIAL RESPIRATION.

 CONSULT A PHYSICIAN.

SKIN CONTACT: TAKE OFF CONTAMINATED CLOTHING AND SHOES

IMMEDIATELY. FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN.

EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.

IF INGESTED: **DO NOT**INDUCE VOMITING UNLESS INSTRUCTED TO DO SO BY A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH EITH WATER. CONSULT A PHYSICIAN.

SECTION V FIREFIGHTING MEASURES

FLAMMABILITY OVERVIEW: CONSIDERED A NON-FLAMMABLE WATER SOLUTION.

FLASH POINT: N/A

EXTINGUISHING MEDIA: USE WATER-SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL PROTECTIVE EQUIPMENT: WEAR A SELF-CONTAINED BREATHING APPARATUS (SCBA) FOR FIREFIGHTING, IF NECESSARY.

HAZARDOUS COMBUSTION PRODUCTS: HAZARDOUS DECOMPOSITION PRODUCTS UNDER FIRE CONDITION: SODIUM OXIDES.

SECTION VI ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS, MIST OR GAS. ALWAYS ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS.

ENVIRONMENTAL PRECAUTIONS: PREVENT FURTHER LEAKAGE OR SPILLIAGE. PREVENT FROM ENTERING DRAINS AND WATERWAYS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

CONTAINMENT AND CLEAN UP: SOAK UP WITH INERT ABSORBENT MATERIAL AND DISPOSE OF AS HAZARDOUS WASTE. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

# SECTION VII HANDLING AND STORAGE

SAFE HANDLING: USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS, MIST OR GAS. ALWAYS ENSURE ADEQUATE VENTILATION.

SAFE STORAGE: KEEP CONTAINERS TIGHTLY CLOSE IN A DRY WELL VENTILATED PLACE. CONTAINERS WHICH ARE OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. STORE AWAY FROM INCOMPATIBLE MATERIALS.

# SECTION VIII EXPOSURE CONTROLS/ PERSONAL PROTECTION

**EXPOSURE LIMITS**

**COMPONENT CAS NUMBER EXPOSURE LIMIT BASIS**

PHOSPHORIC ACID 7664-38-2 1 mg/m3 ACGIH-TLV

 1 mg/m3 OSHA TABLE Z-1

 1 mg/m3 NIOSH EXPOSURE LIMITS

**PERSONAL PROTECTIVE EQUIPMENT**

EYE PROTECTION: WEAR TIGHTLY FITTING SAFETY GOGGLES AND FACE SHIELD. USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER NIOSH. HAVE EYE-WASH STATIONS AVAILABLE WHERE EYE CONTACT CAN OCCUR.

HAND PROTECTION: HANDLE WITH CHEMICAL-RESISTANT GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. DISPOSE OF CONTAMINATED GLOVES. WASH AND DRY HANDS AFTER USE.

SKIN PROTECTION: WEAR COMPLETE SUIT PROTECTION AGAINST CHEMICALS, INCLUDING CHEMICAL-RESISTANT BOOTS. SAFETY SHOWERS SHOULD BE LOCATED IN THE WORK AREA WHERE SKIN CONTACT CAN OCCUR.

RESPIRATORY PROTECTION: WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE, USE A NIOSH-APPROVED FULL FACE RESPIRATOR WITH APPROPRIATE CARTRIDGES. RESPIRATORY PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH OSHA 29 CFR 1910.134.

GENERAL CONTROLS: ALWAYS ENSURE ADEQUATE VENTILATION AND THAT WORKING AREAS CONTAINS SAFETY SHOWERS AND EYE WASH STATIONS. HANDLE

MATERIAL IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

COLOR: COLORLESS

ODOR: TYPICAL

pH (as is): < 2

VAPOR PRESSURE: < 18 mmHg

BOILING POINT: > 212°F

VAPOR DENSITY (air = 1): > 1

SPECIFIC GRAVITY: 1.25 @ 20°C

SOLUBILITY IN WATER: COMPLETE

SECTION X STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

MATERIALS TO AVOID: AVOID WATER, ALKALINE AGENTS, STRONG OXIDIZING AGENTS, MOST METALS (ALUMINUM, LEAD, TIN, ZINC).

HAZARDOUS DECOMPOSITION: SODIUM OXIDES

SECTION XI TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY**

**COMPONENT CAS NUMBER TEST TOXICITY**

PHOSPHORIC ACID 7664-38-2 ORAL LD50 NO DATA AVAILABLE

 DERMAL LD50 NO DATA AVAILABLE

 INHALATION LC50 NO DATA AVAILABLE

**POTENTIAL HEALTH EFFECTS**

INHALATION: MAY BE HARMFUL IF INHALED. MATERIAL IS EXTREMELY DESTRUCTIVE TO THE TISSUE OF THE MUCOUS MEMBRANE AND UPPER RESPIRATORY TRACT.

SKIN: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN BURNS.

EYES: CAUSES SEVERE EYE BURNS.

INGESTION: TOXIC IF SWALLOWED. DO NOT INGEST.

SYMPTOMS OF EXPOSURE: BURNING SENSATION, NAUSEA, COUGH, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, SPASM, INFLAMMATION, AND EDEMA OF THE LARYNX. SPASM, INFLAMMATION, AND EDEMA OF THE BRONCHI, PNEUMONITIS, PULMONARY EDEMA, HEADACHE.

CHRONIC EFFECTS OF EXPOSURE: NO DATA AVAILABLE

CARCINOGENICITY: NO COMPONENTS OF THIS PRODUCT AT LEVELS GREATER THAN 0.1% IS IDENTIFIED AS CARCINOGENIC BY IARC, ACGIH, OR OSHA.

SECTION XII ECOLOGICAL INFORMATION

**ACUTE ECOTOXICITY**

**COMPONENT CAS NUMBER ORGANISM ECOTOXICITY**

PHOSPHORIC ACID 7664-38-2 BLUEGILL SUNFISH 48 hr LC50 =99mg/L

**ECOLOGICAL EFFECTS**

PERSISTENCE AND DEGRADABILITY: NO DATA AVAILABLE

BIOACCUMULATION POTENTIAL: NOT EXPECTED TO BIO-ACCUMULATE

MOBILITY IN SOIL: NO DATA AVAILABLE

OTHER ADVERSE EFFECTS: HARMFUL TO AQUATIC LIFE DUE TO THE INCREASE pH OF THE WATER.

SECTION XIII DISPOSAL

DISPOSAL: SURPLUS AND NON-RECYCLABLE MATERIAL SHOULD BE TREATED AS HAZARDOUS WASTE AND BE DISPOSED OF BY A LICENSED DISPOSAL COMPANY. DO NOT RELEASE INTO SEWERS OR WATERWAYS.

CONTAMINATED PACKAGING: DISPOSE OF AS UNUSED PRODUCT.

SECTION XIV TRANSPORTATION

**PRODUCT NAME:** CIP ACID

**PROPER SHIPPING NAME:** PHOSPHORIC ACID SOLUTION

**ID NUMBER:** UN 1805

**HAZARD CLASS OR DIVISION:** 8

**PACKING GROUP:** III

**DOT HAZARDOUS SUBSTANCE:** PHOSPHORIC ACID 5000 lbs (2270 Kgs)

SECTION XV REGULATORY INFORMATION

**US FEDERAL**

SARA 302 COMPONENTS: NONE LISTED

SARA 311/312 HAZARDS: ACUTE HEALTH HAZARD

SARA 313 COMPONENTS: NONE LISTED

TSCA INVENTORY: PHOSPHORIC ACID (CAS 7664-38-2)

**EUROPEAN UNION**

EC INVENTORY: PHOSPHORIC ACID (EINEC: YES)

**STATE REGULATIONS**

CA PROP 65: NONE LISTED

SECTION XVI OTHER INFORMATION

SDS VERSION: 1.0

REVISION DATE: 05/12/2015

SUPERSEDES: NEW TO GHS

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