

**1 – PRODUCT IDENTIFICATION**

**PRODUCT NAME:**.....**4074**  
**PRODUCT NUMBER:** .....4074  
**OTHER MEANS OF IDENTIFICATION:**..... Light golden liquid with slightly sweet odor  
**RECOMMENDED USE:**.....Closed System Treatment  
**RESTRICTIONS ON USE:**.....Use only as directed.

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

**EMERGENCY PHONE:** .....(800) 424-9300 (CHEMTREC)  
**REVISION DATE:**.....November 13, 2023

**2 – HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:**.....Corrosive. Clear, light golden liquid with a slightly sweet odor. Product is corrosive to eyes, skin, internal respiratory and GI tissues, and some metals. May react exothermically (get hot) with acid.

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

Corrosive to skin .....category 1, subcategory 1B  
Serious eye damage .....category 1  
STOT-SE, respiratory system.....category 1  
STOT-SE, gastrointestinal system...category 1  
Corrosive to metals.....category 1  
\* STOT-SE refers to specific target organ toxicity-single exposure



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



# Safety Data Sheet

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

- H332: Harmful if inhaled; Causes damage to respiratory system
- H302: Harmful if swallowed: Causes damage to digestive system
- H290: May be corrosive to metals

**GHS PRECAUTIONARY STATEMENTS:**.....P262: Do not get in eyes, on skin, or on clothing.

- P281: Use personal protective equipment as required, Wear eye protection and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots
- P260: Do not breathe dust/fume/gas/mist/vapors/spray.
- P264: Wash ... thoroughly after handling, wash gloves and contaminated surfaces.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing for 15 min. call a doctor.
- P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately, call a doctor.
- P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- Keep only in original container.
- P405: Store locked up
- Absorb spillage to prevent material damage.
- P501: Dispose of contents/container in accordance with local state and federal regulations.

**HAZARDS NOT OTHERWISE CLASSIFIED:**.....Contact with some metals may generate explosive hydrogen gas.

**INGREDIENTS WITH UNKNOWN TOXICITY:**.....None Known

**POTENTIAL ENVIRONMENTAL EFFECTS:**.....Significant contamination of small bodies of surface water or localized areas at the point of a spill may elevate pH levels above tolerable levels for aquatic organisms.

## 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Potassium Hydroxide	1.0 - 5.0	1310-58-3
Sodium Tetraborate pentahydrate	10-30	12179-04-3
Benzotriazole	1-5	95-14-7
Sodium Tolytriazole	1-5	64665-57-2
Polymaleic Polymer	1-5	Trade Secret

The exact percent by weight of the ingredients in this formulation is proprietary.



**4 – FIRST-AID MEASURES**

**BREATHING (INHALATION):**..If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

**SWALLOWING (INGESTION):**..If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately, call a poison control center or doctor.

**EYES:** .....If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Immediately, call a doctor.

**SKIN (DERMAL):** .....If on skin (or hair): Immediately, take off all contaminated clothing. Rinse skin with water. Use safety shower if available. Immediately, call a doctor. Wash contaminated clothing before reuse.

**ACUTE SYMPTOMS:**.....Irritation or burns to eyes, skin, or mucous membranes. Injury may result in permanent damage to eyesight or permanent scars on skin.

**DELAYED EFFECTS:** .....Not Known.

**IMMEDIATE OR SPECIAL TREATMENT:** .....After contact with product, immediately flush eyes and/or skin with water for 15 minutes. If safety shower or eye wash is plumbed to cold water, it may be necessary to move victim to a locker room shower or elsewhere to obtain a lukewarm water source before the 15 minute flush is complete. After the 15 minute flush, seek medical treatment.

**5 – FIRE-FIGHTING MEASURES**

**FLASHPOINT:**.....Not Flammable.

**EXTINGUISHING MEDIA:**.....Product is not flammable. Use media appropriate for surrounding fire.Product is corrosive to eyes, skin, and respiratory system. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. Contact with some metals may generate explosive hydrogen gas. Thermal decomposition under fire conditions may produce corrosive aerosols, metal oxide fumes, oxides of carbon, and oxides of phosphorus.

**SPECIAL FIRE FIGHTING PROCEDURES:** .....Wear self-contained breathing apparatus and full turn-out gear. Approach fire from upwind direction. If possible, move containers away from fire. Cool fire exposed containers with water spray. If containers rupture or leak, product may evolve irritating or toxic gas under extreme heat.

**6 – ACCIDENTAL RELEASE MEASURES**

**SPILL PROCEDURES:**.....Contain and collect spills with commercial absorbents. Consult local authorities for appropriate waste classification and waste disposal options in your location.

**PERSONAL PRECAUTIONS:**....Wear chemical splash goggles and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots. If spill escapes to sanitary sewer, notify local public works authorities. If spill escapes to the environment, notify state and federal EPA and, if appropriate, the Coast Guard. Potassium hydroxide ingredient has a CERCLA RQ (reportable quantity) of 1,000 pounds. Product contains 1-5% potassium hydroxide.



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## 7 – HANDLING and STORAGE

**STORAGE:** .....Store product in closed container in well ventilated, secure area. Protect containers against physical damage. Protect label. Avoid contact between this product and other chemicals, especially acids and oxidizers. Empty containers retain product residues and all label hazards are still present until container is thoroughly cleaned.

**HANDLING:**.....Open container slowly until pressure is relieved. Avoid spillage. Clean up small spills and drips promptly. Protect product from contamination. Avoid contact between this product and other chemicals. The recommended disposal for rinse waters from empty units is discharge to the treated system.

## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE LIMITS:** .....Exposure limits for the formulated product are not established. Exposure limits for ingredient(s):

INGREDIENT	SOURCE & PARAMETER	EXPOSURE LIMIT
Potassium hydroxide	ACGIH ceiling	2 mg/m3
Sodium Tetraborate pentahydrate	ACGIH	6mg/m3

### CARCINOGENICITY:

Component	Source	Code	Brief Description
Sodium tetraborate pentahydrate	ACGIH	TLV-A4	Not classifiable as a human carcinogen
Potassium Hydroxide			N/E
Azole			N/E

**PROTECTIVE CLOTHING:** .....Wear chemical splash goggles and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots. If misting occurs, use NIOSH approved organic vapor/acid gas dual cartridge respirator with a dust/mist prefilter in accordance with 29 CFR 1910.134.

**ADDITIONAL MEASURES:**.....General exhaust ventilation is adequate. Employ work practices and product transfer practices that avoid spills, drips, or contact with any incompatible material.

**NOTE:** .....NOTE: OSHA - Occupational Safety and Health Administration; ACGIH - American Conference of Governmental Industrial Hygienists; NIOSH - National Institute for Occupational Safety and Health; PEL - Permissible Exposure Limit; TWA - Time Weighted Average; TLV - Threshold Limit Value; REL - Recommended Exposure Limit; STEL - Short Term Exposure Limit; IDLH - Immediately Dangerous to Life or Health.

## 9 – PHYSICAL / CHEMICAL PROPERTIES

**APPEARANCE:** .....Clear, slightly light golden liquid

**ODOR:** .....Slightly sweet odor

**BOILING POINT:** >212° F

**VAPOR PRESSURE:**.....Not known, similar to water

**VAPOR DENSITY (AIR=1):** .....Not known, similar to water

**SPECIFIC GRAVITY:** .....1.14-1.2

**pH:** .....12.5 – 14.5



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**SOLUBILITY IN WATER:** .....Completely miscible in water  
**FLAMMABILITY:** .....Not Flamable  
**EVAPORATION RATE:**.....<1  
**MELTING POINT/FREEZING POINT:** .....No data available

## 10 – STABILITY and REACTIVITY

**REACTIVITY:** .....Product will react exothermically (get hot), boil, and spatter if contact with acid occurs. Product may also generate heat after contact with water (other than recommended use). Will also react if contact occurs with Stron oxidizers, Aluminum/aluminum alloys, Zinc.  
**STABILITY:**.....Stable at ambient temperatures and pressures.  
**HAZARDOUS DECOMP:** .....Not Known

## 11 – TOXICOLOGICAL INFORMATION

**LIKELY ROUTES OF EXPOSURE:** .....Skin or eye contact.

INGREDIENTS	DATA
Potassium hydroxide	Oral rat LD50, 214 mg/kg
Sodium Tetraborate Pentahydrate	Oral rat LD50 , >3200 mg/kg
	Dermal Rabbit LD50, >2000 mg/kg

## 12 – ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE AND DISTRIBUTION:** Significant contamination of small bodies of surface water or localized areas at the point of a spill may elevate pH levels above tolerable levels for aquatic organisms. No aquatic toxicity data available for the formulated product. Aquatic toxicity for ingredients:

Species	Duration	Type of Effect	Test Results
Ceriodaphnia Dubia	48h	LC50	1767 mg/l

**PERSISTENCE AND DEGRADABILITY:** .....Potassium hydroxide degrades via neutralization reactions.  
**BIOACCUMULATIVE POTENTIAL:** .....Product ingredients do not bioaccumulate.  
**MOBILITY IN SOIL:**.....Not known.  
**OTHER ADVERSE EFFECTS:** ..None known.

## 13 –DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** .....Product is consumed during recommended use. Flush container residues to the treated system. If product is not consumed in use, material is RCRA hazardous waste, D002, corrosive liquid. Dispose of contents or container in accordance with local, state, and federal regulations.

**14 – TRANSPORTATION INFORMATION**

**PROPER SHIPPING NAME:**.....Corrosive liquid, basic, inorganic, n.o.s (Potassium Hydroxide)  
**HAZARD CLASS:** .....8  
**UN/NA NUMBER:** .....UN3266  
**PACKAGING GROUP :** .....II



**ENVIRONMENTAL HAZARDS:**.....Product container meets or exceeds DOT requirements. Product is shipped to end user. Material is a Packing Group II corrosive liquid. No extraordinary measures are required for shipment in bulk tanks including totes. See 49 CFR 172.101 & 49 CFR172.102.

**TRANSPORT IN BULK:** .....Product container meets or exceeds DOT requirements. Product is shipped to end user. Material is a Packing Group II corrosive liquid. No extraordinary measures are required for shipment in bulk tanks including totes. See 49 CFR 172.101 & 49 CFR172.102.

**SPECIAL PRECAUTIONS:** .....If needed, see Column 7 entries in the current DOT hazardous materials table.

**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 ingredients listed or exempt from listing  
**SECTION 312:**.....Not listed  
**SARA SECTION 313:**.....Not Listed.  
**US EPA CERCLA:** .....Potassium hydroxide ingredient has a CERCLA RQ (reportable quantity) of 1,000 pounds. Product contains 1-5% potassium hydroxide.

**SPECIAL REGULATIONS:**

Component	States
Sodium tetraborate pentahydrate	MA, WA
Potassium hydroxide	MA, MN, NY, PA, WA

**16 – OTHER INFORMATION**

**NFPA HAZARD RANKING**

HEALTH	FIRE	REACTIVITY	SPECIAL
3	0	1	



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### HMIS HAZARD RANKING

HEALTH	FIRE	REACTIVITY	PPE
3	0	1	

n - splash goggles

p - gloves

X - consult supervisor

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. The information given is designed only as a guidance. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.