

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:..... **Veritrac 4045**
PRODUCT NUMBER:VERITRAC4045
OTHER MEANS OF IDENTIFICATION:.....Clear acidic liquid. Very slight azole acrylic odor
RECOMMENDED USE:.....Cooling water treatment. Not for use in drinking water.
RESTRICTIONS ON USE:.....Use only as directed.

COMPANY:..... CHEMTRON CORPORATION
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REVISION DATE:.....February 17, 2025

2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:.....Corrosive. Clear, golden yellow acidic liquid with a sweet odor. Product is corrosive to eyes, skin, and some metals. May be irritating to respiratory system,. May react exothermically (get hot) with alkali.

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

Corrosive to MetalsCategory 1
Acute toxicity, oral.....Category 4
Skin corrosion/irritationCategory 1A
Serious eye damage/eye irritation ...Category 1
Specific target organ toxicity, single exposure; Respiratory tract irritation.....Category 3



GHS SIGNAL WORD:**Danger**

GHS HAZARD STATEMENTS:.....H290: May be corrosive to metals
H302: Harmful if swallowed: Causes damage to digestive system
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage
H335: May cause respiratory irritation

GHS PRECAUTIONARY STATEMENTS:.....P234: Keep only in original container.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.



Safety Data Sheet

Product: Veritrac 4045

- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312: IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
- P304+P340: IF INHALED: Remove person to fresh air and keep 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.
- P312: Call a POISON CENTER or doctor/... if you feel unwell.
- P330: Rinse mouth.
- P363: Wash contaminated clothing before reuse.
- P390: Absorb spillage to prevent material damage.
- P404: Store in a closed container.
- P405: Store locked up.
- P501: Dispose of contents/container in accordance with federal, state and local laws

3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Sodium Hydroxide	15-20	1310-73-2
Tolyriazole Sodium	5-10	64665-57-2
Terapotassium Pyrophosphate	5-10	7320-34-5
Etidronic acid	1-5	2809-21-4
Toluenesulfonic acid	1-5	25231-46-3

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.

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:Skin or respiratory irritation is possible following exposures below threshold for acute effects.

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

EXTINGUISHING MEDIA:.....Product is not flammable. Use media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:Product is corrosive to eyes, skin, and may irritate respiratory system. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. Thermal decomposition under fire conditions may produce corrosive aerosols, oxides of nitrogen, oxides of phosphorus, and oxides of carbon.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:.....Contain and collect spills with commercial absorbents. Unused product or spill cleanup residues may be RCRA hazardous waste by the characteristic of corrosivity (D002). 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. For CERCLA RQ see section 15

7 – HANDLING and STORAGE

STORAGE:Store product in closed container in well ventilated, secure area. Protect containers against physical damage. Protect label. 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, especially bases. Avoid contact with metals during handling. Do not transfer into metal containers. 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 hazardous ingredients are also not established

INGREDIENT	SOURCE & PARAMETER	EXPOSURE LIMIT
Sodium Hydroxide	ACGIH CEIL	2 mg/m3
	OSHA PEL	2 mg/m3
	NIOSH CEIL	2 mg/m3

PROTECTIVE CLOTHING:Wear chemical splash goggles and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots.

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

9 – PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE:Clear Liquid

ODOR:Very slight azole acrylic



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Product: Veritrac 4045

BOILING POINT: >212° F
VAPOR PRESSURE:.....Not known, similar to water
VAPOR DENSITY (AIR=1):Not known, similar to water
SPECIFIC GRAVITY:1.1-1.3
pH:1.1-1.3
SOLUBILITY IN WATER:Completely miscible in water.
FLAMMABILITY:Not flammable
EVAPORATION RATE:.....Not known, similar to water.
MELTING POINT:.....Not determined.

10 – STABILITY and REACTIVITY

STABILITY:.....Stable at ambient temperatures and pressures.
HAZARDOUS DECOMP.:May react with alkali (bases) releasing heat. Corrosive liquid may boil and splatter. May also react with oxidizers. Polymerization will not occur.
INCOMPATIBILITY:.....Alkali (bases) and oxidizers. Also, avoid contact with some metals, including aluminum, zinc, copper, brass, bronze, lead, and tin.
HAZARDOUS REACTIONS:Product may react exothermically (get hot) with alkali (bases). Product may also react with oxidizers or other materials that are incompatible with acidic aqueous solutions.

11 – TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:Skin or eye contact
TOXICOLOGICAL CHARACTERISTICS:Product is corrosive to eyes, skin, mucous membranes, and other tissues. Contact will irritate or burn eyes and skin. Permanent damage to eyesight is possible. Permanent scars are possible. Respiratory irritation is possible following inhalation.
DELAYED EFFECTS:Skin or respiratory irritation is possible following exposures below the threshold required to cause acute effects.
IMMEDIATE EFFECTS:Irritation or burns to eyes, skin, or other tissues.
CHRONIC EFFECTS:Skin, eye, or respiratory irritation. Note above entry for delayed effects.
NUMERICAL MEASURES OF TOXICITY:.....No toxicology available on the formulated product. Toxicology data for product ingredient(s):
LISTED CARCINOGEN:Product does not contain 0.1% or greater of ingredients listed as a carcinogens by IARC, NTP, or OSHA.

INGREDIENTS	DATA
Potassium Pyrophosphate	Oral rat LD50, 4,640 mg/kg
Etidronic acid	Oral rat LD50, 1,800 mg/kg
Sodium Hydroxide	Oral rat LD50, 140-340 mg/kg
Toluenesulfonic acid	Oral rat LD50, 400 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 depress pH levels below tolerable levels for aquatic organisms.

PRODUCT	DATA
Veritrac 4045	Ceriodaphnia Dubia 48HR LC50 238 mg/L

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Product: Veritrac 4045

PERSISTENCE AND DEGRADABILITY:Product ingredients expected to biodegrade slowly. Product will not be persistent in the environment.
BIOACCUMULATIVE POTENTIAL:Product ingredients do not bioaccumulate.
MOBILITY IN SOIL:.....Not known.
OTHER ADVERSE EFFECTS: ..Not 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 due to the corrosivity characteristic (D002). Dispose of contents or container in accordance with local, state, and federal regulations.

14 – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:.....Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sodium Hydroxide)
HAZARD CLASS:8
UN/NA NUMBER:UN3264
PACKAGING GROUP :III



ENVIRONMENTAL HAZARDS:.....Product container meets or exceeds DOT requirements. Product is shipped to end user. 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. 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 associated designations at 49 CFR172.102 for detailed descriptions of current container specifications.

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
SECTION 312:.....Acute hazard
SARA SECTION 313:.....Ingredients not listed
US EPA CERLA:Sodium Hydroxide CERCLA-1000 lbs

16 – OTHER INFORMATION**NFPA HAZARD RANKING**

HEALTH	FIRE	REACTIVITY	SPECIAL
3	0	0	Corr

HMS HAZARD RANKING

HEALTH	FIRE	REACTIVITY	PPE
3	0	0	n & p or X (defined below)

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.