Safety Data Sheet

Trichloroacetic Acid

Revision Date 1/1/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Trichloroacetic Acid Solution, 10-100%
Product code: 400550, 400551, 400552, 400553, 400554, 400555, 400557, 400558, 400559, 400560, 400561, 400562, 400563, 400564, 400565, 400566, 400567, 400568, 400569, 400570, 400571, 400572, 400573, 400577, 400598, 400642, 400739, 400740, 400744, 400745, 400746, 400747, 400748, 400749, 400750, 400751, 400754,

Supplier:
EDM 3, LLC
3611 St Johns Bluff Road, Suite 1
Jacksonville, FL 32224
800-638-2625
Monday-Friday: 8:00 -5:00 PM

Synonym: None.
Material uses: Laboratory Reagent.
Validation date: 1/1/2020
In case of a medical emergency or a spill, call: INFOTRAC at 1-800-535-5053 (Domestic within the USA and Canada) or 1-352-323-3500 (International callers may call collect), 24 hours/day, 7 days/week.

2. HAZARDS IDENTIFICATION

GHS Label Elements

Pictogram

Signal Word **Danger!**

Hazardous Statement(s):
H302: Harmful if swallowed (Cat 4)
H314: Causes severe skin burns and eye damage (Cat 1)
H318: Causes serious eye damage (Cat 1)
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled (Cat 1A)
H370: Causes damage to organs (Cat 1)
H412: Harmful to aquatic life with long lasting effects (Cat 3)

Precautionary statement(s):
P260: Do not breathe gas/vapors
P264: Wash skin thoroughly after handling product
P280: Wear protective gloves/protective clothing/eye protection/face protection
P305+338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.

Target Organs
Respiratory tract, eyes, skin, blood, liver and kidneys .

GHS Classification
Skin Corrosion (Category 1A), H314
Serious Eye Damage (Category 1), H318
Acute Aquatic Toxicity (Category 1), H400
Acute Toxicity, Dermal (Category 3), H311

NFPA Rating	**HMIS Classification**
Health hazard: 3	Health hazard: 3
Fire: 0	Flammability: 0
Reactivity Hazard: 0	Physical hazards: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	**CAS number**	**% by weight**
Trichloroacetic Acid	76-03-9	100%

4. FIRST AID MEASURES

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with water for 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: Flush skin with water for 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Call medical doctor or poison control center immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flammability of the product: Non-flammable

Extinguishing media: Use suitable media for surrounding materials.

Special exposure hazards: Not available

Decomposition products: Not available

Special protective equipment for fire-fighters: Use self-contained breathing apparatus if necessary.

Explosion hazards: Not-applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep unnecessary and unprotected personnel from entering area. Avoid breathing vapors. Provide adequate ventilation. Do not touch or walk through spilled material.

Environmental precautions: Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Contain spill area.

Spill: Prevent runoff. Contain and collect spillage with absorbent material e.g. sand, earth, vermiculite etc and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Dilute with water and mop-up or absorb with an inert dry material and place in an appropriate waste disposal container. Avoid contact with strong oxidizers.

7. HANDLING AND STORAGE

Handling: Avoid breathing vapors or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store in ventilated areas. Keep from alkalis.

Storage: Store in a well-ventilated, cool area. Keep container tightly closed and sealed until ready for use. Corrosive material should be stored separately.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

ACGIH TLV: TWA, 1ppm
OSHA PEL: TWA: 1ppm
NIOSH REL: TWA: 1ppm

Engineering measures: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne concentrations below any recommended threshold limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating and using the lavatory. Wash contaminated clothing before reusing.

Personal protection
Respiratory: If used in poorly ventilated areas, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels.
Hands: Chemical-resistant neoprene gloves
Eyes: Safety eyewear; splash goggles, face shield
Skin: Lab coats for personal protective equipment and should be approved by a specialist before handling this product. Depending on volume/conditions a full acid suit, flame retardant, antistatic may be necessary.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.	**Color:**	Clear
Flash Point:	NA	**Odor:**	NA
pH:	NA	**Boiling/condensation point:**	NA
Melting/freezing point:	NA	**Relative density:**	NA
Vapor pressure:	NA	**Vapor density:**	NA
Odor threshold:	NA	**Evaporation rate:**	NA
VOC:	NA		
Solubility:	Soluble in the following materials: water		

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable under normal conditions.
Possibility of hazardous reactions: Not available
Hazardous polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid: Strong alkaline solutions
Materials to avoid: Strong alkaline solutions/oxidizing materials
Hazardous decomposition products: Not available

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral: LD50-Rat 3,320 mg/kg

Inhalation: Not available

Dermal: Not available

Other information on acute toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
Eyes: Rabbit, severe eye irritation – 5s
Respiratory or skin sensitization
No data available
Germ cell mutagenicity
No data available
Specific target organ toxicity - single exposure (Globally Harmonized System)
No data available
Specific target organ toxicity - repeated exposure (Globally Harmonized System)
No data available

Aspiration hazard
No data available

Potential health effects
Inhalation Liquid or spray mist may produce tissue damage especially mucous membranes of eyes, mouth and respiratory tract. Toxic to lungs.
Ingestion May cause burns/tissue destruction.
Skin Will burn skin on contact.
Eyes Will burn eyes on contact.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity
LC50, fathead minnow >2000 mg/L 96 hr
Persistence and degradability
Not readily biodegradable
Bioaccumulative potential
no data available
Mobility in soil
no data available
PBT and vPvB assessment
no data available
Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US) UN 2564, Trichloroacetic acid solution, Corrosive Liquid, Class 8, PG II Ship as LTDQTY

IMDG UN 2564, Trichloroacetic acid solution, Corrosive Liquid, Class 8, PG II EMS-No: F-A, S-B

IATA UN 2564, Trichloroacetic acid solution, Corrosive Liquid, Class 8, PG II

15. REGULATORY INFORMATION

SARA 302: No components are subject to reporting of Title III

SARA 313: No components are subject to reporting of Title III

SARA 311/312: Acute Health Hazard, Chronic Health Hazard

WHMIS (Canada): Class D-2A**:** Material causing other toxic effects (Very Toxic) Class E: Corrosive liquid

DEA List I Chemicals Precursor Chemicals): Not listed
DEA List II Chemicals Essential Chemicals):

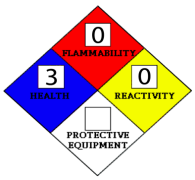
Florida substances:	RTK Trichloroacetic Acid
Massachusetts	RTK Trichloroacetic Acid
New Jersey	RTK Trichloroacetic Acid
Pennsylvania	RTK Trichloroacetic Acid

California Prop 65 Components: Warning! This product contains a chemical known to the state of California to cause cancer.

WHMIS (Canada)
Class D-2A: Material causing other toxic effects (very toxic) Class E: Corrosive liquid

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader
The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. EDM3 shall not be liable for any damage resulting from handling of contact with this product.