

SIGMA CHEMICAL COMPANY -- TRICHLOROACETIC ACID SOLUTION 0.38 N,331-7 --
6810-01-168-0439

===== Product Identification =====

Product ID:TRICHLOROACETIC ACID SOLUTION 0.38 N,331-7

MSDS Date:03/17/1992

FSC:6810

NIIN:01-168-0439

MSDS Number: BQKSQ

=== Responsible Party ===

Company Name:SIGMA CHEMICAL COMPANY

Box:14508

City:ST. LOUIS

State:MO

ZIP:63178

Country:US

Info Phone Num:800-325-3010/FAX 800-325-5052

Emergency Phone Num:314-771-5765

CAGE:21076

=== Contractor Identification ===

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Country:US

Phone:314-771-5765

CAGE:21076

===== Composition/Information on Ingredients =====

Ingred Name:TRICHLOROACETIC ACID (0.38 NORMAL SOLUTION)

CAS:76-03-9

RTECS #:AJ7875000

Fraction by Wt: 6.2%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 PPM

ACGIH TLV:1 PPM; 9293

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Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 400 MG/KG.

Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-EXTREMELY DESTRUCTIVE TO TISSUE OF MUCOUS MEMBRANES & UPPER RESPIRATORY TRACT,EYES &

SKIN.INHALATION OF VAPORS OR INGESTION OF LIQUID MAY BE FATAL.MAY CAUSE INFLAMMATION OF LARYNEX & BRONCHI,CHE MICAL PNEUMONITIS,BURNING,COUGHING,WHEEZING,LA

RYNGITIS,HEADACHE,NAUSEA &

VOMITING.CHRONIC-CHEMICAL PNEUMONITIS & EDEMA.

Effects of Overexposure:CORROSIVE. CAUSES BURNS. EXTREMELY DESTRUCTIVE TO TISSUE OF MUCOUS MEMBRANES & UPPER RESPIRATORY TRACT, EYES &

SKIN. INHALATION OF VAPORS OR INGESTION OF LIQUID MAY BE FATAL. MAY CAUSE INFLAMMATION OF LARYNEX & BRONCHI, CHEMICAL PNEUMONITIS,

BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, HEADACHE, NAUSEA & VOMITING

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS

OR WITH PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT, EYES OR SKIN MAY BE AT INCREASED RISK FROM EXPOSURE.

===== First Aid Measures =====

First Aid:GET IMMEDIATE MEDICAL ATTENTION IN ALL CASES.INHALED:REMOVE TO FRESH AIR.PROVIDE CPR/OXYGEN IF NEEDED.EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES.HOLD EYELIDS OPEN.ORAL:DO NOT INDUCE VOMITING.IF CONSCIOUS,WASH OUT MOUTH WITH WATER.

===== Fire Fighting Measures =====

Flash Point:NOT COMBUSTIBLE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

===== Accidental Release Measures =====

Spill Release

Procedures: VENTILATE AREA. WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES. ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

Neutralizing Agent: SODA ASH

==== Handling and Storage =====

Handling and Storage Precautions: STORAGE-KEEP CONTAINER TIGHTLY CLOSED IN COOL PLACE. PROTECT FROM PHYSICAL DAMAGE.

Other Precautions: AVOID BREATHING VAPORS OR MISTS. DO NOT GET IN EYES,

ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. KEEP OUT OF REACH OF CHILDREN.

==== Exposure Controls/Personal Protection =====

Respiratory Protection: NONE SHOULD BE NEEDED. IF MISTS OR VAPORS PRESENT, WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE. USE ONLY IN A CHEMICAL FUME HOOD.

Ventilation: PROVIDE SUFFICIENT LOCAL EXHAUST VENTILATION TO CONTROL INHALATION EXPOSURES BELOW TLV.

Protective Gloves: PVC

Eye Protection: SAFETY GOGGLES & FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING.

Supplemental Safety and Health

==== Physical/Chemical Properties =====

HCC: C2

Solubility in Water: SOLUBLE

Appearance and Odor: LIQUID

==== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES STRONG ALKALIES

Stability Condition to Avoid: EXCESSIVE HEAT

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN CHLORIDE

==== Disposal Considerations =====

Waste Disposal Methods: DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT

T AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN
AFTERBURNER AND SCRUBBER. OBSERVE ALL APPLICABLE FEDERAL, STATE AND
LOCAL REGULATIONS.

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