

SIGMA CHEMICAL CO -- TRICHLOROACETIC ACID SOLUTION 0.38N -- 6550-01-208-2381

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

Product ID:TRICHLOROACETIC ACID SOLUTION 0.38N

MSDS Date:07/10/1990

FSC:6550

NIIN:01-208-2381

MSDS Number: BJZLN

=== Responsible Party ===

Company Name:SIGMA CHEMICAL CO

Box:14508

City:ST. LOUIS

State:MO

ZIP:63178

Info Phone Num:800-325-8070

Emergency Phone Num:314-771-5765

CAGE:21076

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= 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

CAS:76-03-9

RTECS #:AJ7875000

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 PPM

ACGIH TLV:1 PPM; 9192

===== Hazards Identification =====

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

Rout

es of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:MATERIAL IS A CORROSIVE ACID SOLUTION  
AND WILL CAUSE IRRITATION AND BURNS TO EYES, SKIN, RESPIRATORY  
TRACT AND GASTROINTESTINAL TRACT. INGESTION WILL RESULT IN BURNS TO  
THE MOUTH, THROAT, AND GASTROINTESTINAL TRACT. CHRONIC: PROLONGED  
EXPOSURE MAY LEAD TO DELAYED EFFECTS INCLUDING SCARRING AND  
INFECTION OF LIVER/KIDNEY

Explanation of Carc

inogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS  
LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:EYE AND SKIN BURNS DEVELOP IMMEDIATELY.  
INGESTION MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, HEMORRAGING,  
AND PERFORATION OF ORGANS. MATERIAL IS EXTREMELY DESTRUCTIVE TO THE  
MUCOUS MEMBRANES, EYES, SKIN, AND UPPER RESPIRATORY TRACT.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF SKIN AND  
RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM  
EXPOSURE.

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

First Aid:EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.  
GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH  
WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN  
IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF VICTIM  
IS NOT BREATHING. INGESTION: GIVE VICTIM LARGE AMOUNTS OF WATER TO  
DILUTE MATERIAL. GET MEDICAL ATTENTION.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL AS APPROPRIATE FOR SURROUNDINGS.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL  
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE  
HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

#### ===== Accidental Release

Measures =====

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT, ELIMINATE SOURCES OF IGNITION, AND VENTILATE AREA AS REQUIRED. ABSORB SMALL SPILL WITH INERT MATERIAL (VERMICULITE, SAND ETC.) PLACE WASTE IN DOT APPROVED CONTAINER FOR DISP OSAL.

Neutralizing Agent:SODA ASH OR SODIUM BICARBONATE (SMALL SPILLS)

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM SOURCES OF IGNITION. KEEP CONTAINER CLOSED WHEN NOT IN USE. PROTECT FROM PHYSICAL DAMAGE.

Other Precautions:CORROSIVE MATERIAL - AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. AVOID BREATHING VAPORS.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTI ON.

Ventilation:MECHANICAL (GENERAL) VENTILATION IS USUALLY ADEQUATE.

Protective Gloves:ACID RESISTANT GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES OR FACE SHIELD

Other Protective Equipment:SAFETY SHOWER AND EYE BATH. INDUSTRIAL TYPE WORK CLOTHING AND APRON AS REQUIRED TO AVOID PROLONGED OR REPEATED CONTACT.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

CORROSIVE MATERI

AL - AVOID CONTACT. MATERIAL IS A VESICANT.

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

HCC:N1

Appearance and Odor:LIQUID

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

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZING AGENTS, ALKALIES

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

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

===== Di

sposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE  
FEDERAL, STATE AND LOCAL REGULATIONS. DILUTED AND NEUTRALIZED  
MATERIAL CAN PROBABLY BE FLUSHED TO WASTE WATER TREATMENT VIA A  
SEWER.

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