



NEAR INTERNATIONAL TRADE CO.,LIMITED
ADD:FLAT 1506,15/F,LUCKY CENTER,NO.165-
171 WAN CHAI ROAD,WAN CHAI,HONG KONG
WEB:<https://nearchemical.net/>

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product

MSDS Name:Trichloroethylene Stabilized with 0.02% Triethylamine

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
79-01-6	Trichloroethylene	99.8	201-167-4

Hazard Symbols: T

Risk Phrases: 36/38 45 52/53 67 68

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes and skin. May cause cancer. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.Possible risk of irreversible effects.

Potential Health Effects

Eye:

Causes moderate eye irritation. May result in corneal injury.

Contact produces irritation, tearing, and burning pain.

Skin:

Causes mild skin irritation. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis. May cause peripheral nervous system function impairment including persistent neuritis, and temporary loss of touch.

Damage to the liver and other organs has been observed in workers who have been overexposed.

Ingestion:

Aspiration hazard. May cause irritation of the digestive tract.

Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal.

Inhalation:

Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause respiratory tract irritation. May cause liver abnormalities. May cause peripheral nervous system effects.

Chronic:



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Possible cancer hazard based on tests with laboratory animals.

Chronic inhalation may cause effects similar to those of acute inhalation. Prolonged or repeated skin contact may cause defatting and dermatitis. May cause peripheral nervous system function impairment including persistent neuritis, and temporary loss of touch. Damage to the liver and other organs has been observed in workers who have been overexposed.

Section 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Possible aspiration hazard. Get medical aid immediately.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Combustion generates toxic fumes. Containers may explode in the heat of a fire.

Extinguishing Media:

Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition.

Provide ventilation.

Section 7 - HANDLING and STORAGE



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Handling:

Wash thoroughly after handling. Use only in a well-ventilated area.

Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:

Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 79-01-6: United Kingdom, WEL - TWA: 100 ppm TWA; 550 mg/m³ TWA United Kingdom, WEL - STEL: 150 ppm STEL; 820 mg/m³ STEL United States OSHA: 100 ppm TWA; 200 ppm Ceiling Belgium - TWA: 50 ppm VLE; 273 mg/m³ VLE Belgium - STEL: 100 ppm VLE; 545 mg/m³ VLE France - VME: 75 ppm VME; 405 mg/m³ VME France - VLE: 200 ppm VLE; 1080 mg/m³ VLE Germany: 30 ppm TWA; 165 mg/m³ TWA Japan: 25 ppm OEL; 135 mg/m³ OEL Malaysia: 50 ppm TWA; 269 mg/m³ TWA Netherlands: 100 ppm STEL; 538 mg/m³ STEL Netherlands: 35 ppm MAC; 190 mg/m³ MAC Russia: 10 mg/m³ TWA Spain: 50 ppm VLA-ED; 273 mg/m³ VLA-ED Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Not available.

Color: Not available.

Odor: Not available.

pH: Not available.



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Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density:

Molecular Formula:

Molecular Weight:

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Light.

Incompatibilities with Other Materials:

Alkalis (sodium hydroxide), chemically active metals (aluminum, beryllium, lithium, magnesium), epoxies and oxidants. Can react violently with aluminum, barium, lithium, magnesium, liquid oxygen, ozone, potassium hydroxide, potassium nitrate, sodium, sodium hydroxide, titanium, and nitrogen dioxide. Reacts with water under heat and pressure to form hydrogen chloride gas.

Hazardous Decomposition Products:

Hydrogen chloride, carbon dioxide, chloride fumes.

Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 79-01-6: KX4550000 LD50/LC50:

CAS# 79-01-6: Draize test, rabbit, eye: 20 mg/24H Moderate; Draize test, rabbit, skin: 2 mg/24H Severe; Inhalation, mouse: LC50 = 8450 ppm/4H; Inhalation, mouse: LC50 = 220000 mg/m³/20M; Inhalation, mouse: LC50 = 262000 mg/m³/30M; Inhalation, mouse: LC50 = 40000 mg/m³/4H; Inhalation, rat: LC50 = 140700 mg/m³/1H; Oral, mouse: LD50 = 2402 mg/kg; Oral, mouse: LD50 = 2400 mg/kg; Oral, rat: LD50 = 4920 mg/kg;



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Skin, rabbit: LD50 = >20 gm/kg; Skin, rabbit: LD50 = 20 mL/kg.

Carcinogenicity:

Trichloroethylene - California: carcinogen, initial date 4/1/88 NTP: Suspect carcinogen IARC: Group 2A
carcinogen Other:

See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Bluegill sunfish, LD50= 44,700 ug/L/96Hr. Fathead minnow, LC50=40.7 mg/L/96Hr.

Section 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: TRICHLOROETHYLENE

Hazard Class: 6.1

UN Number: 1710

Packing Group: III

IMO

Shipping Name: TRICHLOROETHYLENE

Hazard Class: 6.1

UN Number: 1710

Packing Group: III

RID/ADR

Shipping Name: TRICHLOROETHYLENE

Hazard Class: 6.1

UN Number: 1710

Packing group: III

USA RQ: CAS# 79-01-6: 100 lb final RQ; 45.4 kg final RQ

Section 15 - REGULATORY INFORMATION



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European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 45 May cause cancer.

R 36/38 Irritating to eyes and skin.

R 52/53 Harmful to aquatic organisms, may cause
long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.

R 68 Possible risk of irreversible effects.

Safety Phrases:

S 53 Avoid exposure - obtain special instructions
before use.

S 45 In case of accident or if you feel unwell, seek
medical advice immediately (show the label where
possible).

S 61 Avoid release to the environment. Refer to
special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 79-01-6: 3

Canada

CAS# 79-01-6 is listed on Canadas DSL List.

CAS# 79-01-6 is listed on Canadas Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 79-01-6 is listed on the TSCA inventory.

Section 16 - Other Information
