



**** SECTION 1 - CHEMICAL PRODUCT AND ****

MSDS Name: Nitrilotris(methylene)triphosphonic acid, 50 wt% solution in water

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#	Haz Symbols
6419-19-8	Nitrilotris(methylene)triphosphonic acid, 50 wt% solution in water	50wt%	229-146-5	

Hazard Symbols: C

Risk Phrases: 34

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Causes burns. Corrosive.

Potential Health Effects: Eye: Causes eye burns. Skin: Causes skin burns. Ingestion: Causes gastrointestinal tract burns. Inhalation: Causes chemical burns to the respiratory tract.

Chronic: Not available.

**** 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. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Ingestion: Get medical aid. Wash mouth out with water. 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. 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. Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated. Spills/Leaks:

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

**** SECTION 7 - HANDLING and STORAGE ****

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. Storage:

Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Personal Protective Equipment

Eyes: Wear chemical goggles and a face shield if splashing is possible.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Clear liquid

Color: colorless

Odor: Not available.

pH: Not available.

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: 1.3500

Molecular Formula: N CH₂P(O)(OH)₂3

Molecular Weight: 299.04

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Not available.

Conditions to Avoid:

Not available.

Incompatibilities with Other Materials:

Not available.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:

CAS# 6419-19-8: SZ9860000

LD50/LC50:

CAS# 6419-19-8: Draize test, rabbit, eye: 100 mg Moderate; Draize test, rabbit, skin: 500 mg/24H; Oral, rat: LD50 = 2100 mg/kg; Skin, rabbit: LD50 = >6310 mg/kg.

Skin, rabbit: 500 mg/24H Standard Draize test

Carcinogenicity:

Nitriлотris(methylene)triphosphonic acid, 50 wt% solution i -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.

**** SECTION 14 - TRANSPORT INFORMATION ****

IATA

Shipping Name: CORROSIVE LIQUID, N.O.S.*

Hazard Class: 8

UN Number: 1760

Packing Group: III

IMO

Shipping Name: CORROSIVE LIQUID, N.O.S.
Hazard Class: 8
UN Number: 1760
Packing Group: III
RID/ADR
Shipping Name: CORROSIVE LIQUID, N.O.S.
Hazard Class: 8
UN Number: 1760
Packing group: III

**** SECTION 15 - REGULATORY INFORMATION ****

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 34 Causes burns.

Safety Phrases:

S 25 Avoid contact with eyes.

S 36/37/39 Wear suitable protective clothing, gloves
and eye/face protection.

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

WGK (Water Danger/Protection)

CAS# 6419-19-8: 1

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 6419-19-8 is listed on Canada's DSL List.

CAS# 6419-19-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 6419-19-8: OEL-ARAB Republic of Egypt:TWA 0.1 mg(Cu)/m³ (fume)

OEL-AUSTRALIA:TWA 0.2 mg(Cu)/m³ (fume)

OEL-AUSTRALIA:TWA 1 mg(Cu)/m³ (dust)

OEL-BELGIUM:TWA 0.2 mg(Cu)/m³ (fume)

OEL-BELGIUM:TWA 1 mg(Cu)/m³ (dust)

OEL-DENMARK:TWA 0.1 mg(Cu)/m³ (fume)

OEL-DENMARK:TWA 1 mg(Cu)/m³ (dust)

OEL-FINLAND:TWA 0.2 mg(Cu)/m³ (fume)

OEL-FINLAND:TWA 1 mg(Cu)/m³

OEL-FINLAND:TWA 1 mg(Cu)/m³ (dust)

OEL-FRANCE:TWA 0.2 mg(Cu)/m³ (fume)
OEL-FRANCE:TWA 1 mg(Cu)/m³;STEL 2 mg(Cu)/m³ (dust)
OEL-GERMANY:TWA 0.1 mg(Cu)/m³ (fume)
OEL-GERMANY:TWA 1 mg(Cu)/m³
OEL-GERMANY:TWA 1 mg(Cu)/m³ (dust)
OEL-HUNGARY:TWA 0.2 mg(Cu)/m³;STEL 0.4 mg(Cu)/m³ (dust)
OEL-INDIA:TWA 0.2 mg(Cu)/m³ (fume)
OEL-THE NETHERLANDS:TWA 02 mg(Cu)/m³ (fume)
OEL-THE NETHERLANDS:TWA 1 mg(Cu)/m³ (dust)
OEL-THE PHILIPPINES:TWA 1.0 mg(Cu)/m³ (fume) JAN9
OEL-POLAND:TWA 0.1 mg(Cu)/m³ (fume)
OEL-RUSSIA:STEL 0.5 ppm (1 mg(Cu)/m³) (dust) JAN9
OEL-SWEDEN:TWA 0.2 mg(Cu)/m³ (resp. dust)
OEL-SWEDEN:TWA 0.2 mg(Cu)/m³ (fume)
OEL-SWEDEN:TWA 1 mg(Cu)/m³ (total dust)
OEL-SWITZERLAND:TWA 0.1 mg(Cu)/m³;STEL 0.2 mg(Cu)/m³ (fume)
OEL-SWITZERLAND:TWA 1 mg(Cu)/m³;STEL 1 mg(Cu)/m³
OEL-THAILAND:TWA 0.1 mg(Cu)/m³ (fume)
OEL-THAILAND:TWA 1 mg(Cu)/m³
OEL-U
US FEDERAL
TSCA
CAS# 6419-19-8 is listed on the TSCA inventory.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 7/16/1996 Revision #0 Date: Original.

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