

# Material Safety Data Sheet

## Triethylenemelamine, 98%

ACC# 36709

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Triethylenemelamine, 98%

**Catalog Numbers:** AC269050000, AC269050025

**Synonyms:** Aziridine, 1,1',1''-s-triazine-2,4,6-triyltris-; Melamine, triethylene; TEM; Triethylenemelamin; 1,3,5-Triazine, 2,4,6-tris(1-aziridinyl)-; 1,1',1''-s-Triazine-2,4,6-triyltrisaziridine; Triaziridinyl triazine; Triethanomelamine; 2,4,6-Tri(ethyleneimino)-1,3,5-triazine; 2,4,6-Triethyleneimino-s-triazine; 2,4,6-Triethylenimino-s-triazine; 2,4,6-Triethylenimino-1,3,5-triazine; Trisaziridinyltriazine; 2,4,6-Tris(1-aziridinyl)-s-triazine; 2,4,6-Tris(1'-aziridinyl)-1,3,5-triazine; 2,4,6-Tris(ethyleneimino)s-triazine; Tris(ethyleneimino)triazine; 2,4,6-Tris(ethylenimino)-s-triazine; Trisethylemeimino-1,3,5-triazine

**Company Identification:**

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

**For information in North America, call:** 800-ACROS-01

**For emergencies in the US, call CHEMTREC:** 800-424-9300

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
51-18-3	Triethylenemelamine	98	200-083-5

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: white crystalline powder.

**Danger!** May be fatal if swallowed. Poison! Questionable carcinogen. Moisture sensitive. May cause reproductive and fetal effects.

**Target Organs:** Bone marrow.

#### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** May be fatal if swallowed. Anorexia & abdominal pain may occur. May cause Headache, euphoria, hiccoughs, muscle weakness, blood in urine, and burning sensation in chest. Causes bone marrow depression.

**Inhalation:** May cause respiratory tract irritation. May cause irritation of the mucous membranes.

**Chronic:** Effects may be delayed. Causes bone marrow depression. May cause liver and kidney damage and toxicity.

### Section 4 - First Aid Measures

**Eyes:** 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 immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Notes to Physician:** Treat symptomatically and supportively.

### 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use dry chemical, carbon dioxide, or alcohol-resistant foam. DO NOT USE WATER! Do NOT get water inside containers.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:**Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 3; Flammability: 0; Instability: 1

### Section 6 - Accidental Release Measures

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

**Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Cover with sand, dry lime or soda ash and place in a closed container for disposal. Provide ventilation. Do not get water inside containers.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Do not allow contact with water. Discard contaminated shoes. Keep from contact with moist air and steam.

**Storage:** Keep container closed when not in use. Poison room locked/refrigerator. Store protected from moisture.

## 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. Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Triethylenemelamine	none listed	none listed	none listed

**OSHA Vacated PELs:** Triethylenemelamine: No OSHA Vacated PELs are listed for this chemical.

### 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:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder

**Appearance:** white

**Odor:** odorless

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:**Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:**160 deg C

**Decomposition Temperature:**139 deg C

**Solubility:** 40 G/100 ML WATER (26°C)

**Specific Gravity/Density:**Not available.

**Molecular Formula:**C9H12N6

**Molecular Weight:**204.23

## Section 10 - Stability and Reactivity

**Chemical Stability:** Polymerizes on exposure to heat, water or aqueous solutions.

**Conditions to Avoid:** Incompatible materials, moisture, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents, aqueous solutions, moisture, water.

**Hazardous Decomposition Products:** Nitrogen oxides.

**Hazardous Polymerization:** May occur.

## Section 11 - Toxicological Information

### RTECS#:

**CAS#** 51-18-3: XZ2100000

### LD50/LC50:

CAS# 51-18-3:

Oral, mouse: LD50 = 15 mg/kg;

Oral, rat: LD50 = 13 mg/kg;

### Carcinogenicity:

CAS# 51-18-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** Substance has been classified as a group 3 carcinogen.Equivocal tumorigenic data by RTECS criteria: tumorigenic effects in experimental animals. See actual RTECS entry for complete information.

**Teratogenicity:** Teratogenic effects have occurred in experimental animals.

**Reproductive Effects:** Adverse reproductive effects have occurred in humans.Adverse reproductive effects have occurred in experimental animals.

**Mutagenicity:** Mutagenic effects have occurred in experimental animals. Mutagenic effects have occurred in humans.

**Neurotoxicity:** No information found

**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** No data available.

**Physical:** No data available.

**Other:** None.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	TOXIC SOLIDS, ORGANIC, N.O.S.	TOXIC SOLID ORGANIC NOS (TRIETHYLENEMELAMINE)
<b>Hazard Class:</b>	6.1	6.1
<b>UN Number:</b>	UN2811	UN2811
<b>Packing Group:</b>	I	I

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 51-18-3 is not listed on the TSCA inventory. It is for research and development use only.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### Section 313

No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

#### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

CAS# 51-18-3 can be found on the following state right to know lists: California.

### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

### European/International Regulations

#### European Labeling in Accordance with EC Directives

#### Hazard Symbols:

T+

#### Risk Phrases:

R 28 Very toxic if swallowed.

R 40 Limited evidence of a carcinogenic effect.

#### Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

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# 51-18-3: No information available.

**Canada - DSL/NDSL**

None of the chemicals in this product are listed on the DSL or NDSL list.

**Canada - WHMIS**

This product has a WHMIS classification of D2A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

CAS# 51-18-3 is listed on the Canadian Ingredient Disclosure List.

<b>Section 16 - Additional Information</b>
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**MSDS Creation Date:** 7/30/1999

**Revision #3 Date:** 10/03/2005

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