

# Material Safety Data Sheet

## Methacrylonitrile, 99% (stabilized with 50 ppm MEHQ)

ACC# 62121

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Methacrylonitrile, 99% (stabilized with 50 ppm MEHQ)

**Catalog Numbers:** AC187430000, AC187430050, AC187431000, AC187435000

**Synonyms:** 2-Methyl-2-propenenitrile.

**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
126-98-7	Methacrylonitrile	99	204-817-5

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: clear, colorless to pale yellow liquid. Flash Point: 12 deg C.

**Danger!** May be fatal if inhaled. **Flammable liquid and vapor.** Causes eye, skin, and respiratory tract irritation. May cause allergic skin reaction. Harmful if swallowed or absorbed through the skin.

**Target Organs:** Skin.

#### Potential Health Effects

**Eye:** Causes eye irritation. Lachrymator (substance which increases the flow of tears).

**Skin:** Causes skin irritation. Harmful if absorbed through the skin. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Substance is readily absorbed through the skin.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract.

**Inhalation:** Harmful if inhaled. Causes respiratory tract irritation. May be fatal if exposed to high concentrations. Vapors may cause dizziness or suffocation.

**Chronic:** No information found.

### 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. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Severe acute inhalations should be treated like cyanide poisoning.

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

**Antidote:** Always have a cyanide antidote kit on hand when working with cyanide compounds. Get medical advice to use.

### 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 may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Use water spray to keep fire-exposed containers cool. Extremely flammable liquid and vapor. Containers may explode in the heat of a fire. Flammable liquid and vapor. Will be easily ignited by heat, sparks or flame.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

**Flash Point:** 12 deg C ( 53.60 deg F)

**Autoignition Temperature:** Not available.

**Explosion Limits, Lower:** 2.00 vol %

**Upper:** 6.80 vol %

**NFPA Rating:** (estimated) Health: 4; Flammability: 3; Instability: 1

### 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. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. A vapor suppressing foam may be used to reduce vapors.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Ground and bond containers when transferring material. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Keep away from heat, sparks and flame. Do not breathe vapor or mist. Use only with adequate ventilation or respiratory protection.

**Storage:** Keep away from sources of ignition. Refrigerator/flammables. Keep containers tightly closed.

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

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Methacrylonitrile	1 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route	1 ppm TWA; 3 mg/m3 TWA	none listed

**OSHA Vacated PELs:** Methacrylonitrile: 1 ppm TWA; 3 mg/m3 TWA

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles and face shield.

**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:** Liquid

**Appearance:** clear, colorless to pale yellow

**Odor:** bitter-almond

**pH:** Not available.

**Vapor Pressure:** 64.4 mbar @ 20

**Vapor Density:** 2.31

**Evaporation Rate:** Not available.

**Viscosity:** 0.39 MPA 20.00 deg

**Boiling Point:** 90 - 92 deg C @ 760 mm Hg

**Freezing/Melting Point:** -35.8 deg C

**Decomposition Temperature:** Not available.

**Solubility:** Insoluble.

**Specific Gravity/Density:** .8000g/cm3

**Molecular Formula:** C4H5N

**Molecular Weight:** 67.09

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. When heated to decomposition cyanide fumes are released.

**Conditions to Avoid:** Ignition sources, excess heat, confined spaces.

**Incompatibilities with Other Materials:** Strong oxidizing agents, strong reducing agents, strong acids, strong bases, chlorates, nitrates.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide, cyanides.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

### RTECS#:

**CAS#** 126-98-7: UD1400000

### LD50/LC50:

CAS# 126-98-7:

Draize test, rabbit, eye: 50 mg;  
Draize test, rabbit, eye: 500 mg/24H Mild;  
Draize test, rabbit, skin: 200 mg Mild;  
Draize test, rabbit, skin: 500 mg/24H Mild;  
Inhalation, mouse: LC50 = 36 ppm/4H;  
Inhalation, rabbit: LC50 = 37 ppm/4H;  
Inhalation, rat: LC50 = 328 ppm/4H;  
Oral, mouse: LD50 = 17 mg/kg;  
Oral, rabbit: LD50 = 16 mg/kg;  
Oral, rat: LD50 = 120 mg/kg;  
Skin, rabbit: LD50 = 12500 ug/kg;

Skin, rat: LD50 = 2080 mg/kg;

**Carcinogenicity:**

CAS# 126-98-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Mutagenicity:** No information available.

**Neurotoxicity:** No information available.

**Other Studies:**

## Section 12 - Ecological Information

No information available.

## 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:**

CAS# 126-98-7: waste number U152 (Ignitable waste, Toxic waste).

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	METHACRYLONITRILE, STABILIZED	METHACRYLONITRILE, STABILIZED
<b>Hazard Class:</b>	3	3(6.1)
<b>UN Number:</b>	UN3079	UN3079
<b>Packing Group:</b>	I	I
<b>Additional Info:</b>		FLASHPOINT 12 C

## Section 15 - Regulatory Information

### US FEDERAL

**TSCA**

CAS# 126-98-7 is listed on the TSCA inventory.

**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**

CAS# 126-98-7: 1000 lb final RQ; 454 kg final RQ

**SARA Section 302 Extremely Hazardous Substances**

CAS# 126-98-7: 500 lb TPQ

**Section 313**

This material contains Methacrylonitrile (CAS# 126-98-7, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

**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:**

CAS# 126-98-7 is considered highly hazardous by OSHA.

**STATE**

CAS# 126-98-7 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

**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 F N

**Risk Phrases:**

R 11 Highly flammable.  
R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R 43 May cause sensitization by skin contact.  
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases:**

S 16 Keep away from sources of ignition - No smoking.  
S 18 Handle and open container with care.  
S 29 Do not empty into drains.  
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S 9 Keep container in a well-ventilated place.

**WGK (Water Danger/Protection)**

CAS# 126-98-7: 2

**Canada - DSL/NDSL**

CAS# 126-98-7 is listed on Canada's NDSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D1A, B2, D2B.

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# 126-98-7 is listed on the Canadian Ingredient Disclosure List.

<b>Section 16 - Additional Information</b>
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**MSDS Creation Date:** 11/17/1998

**Revision #5 Date:** 3/22/2006

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