# Material Safety Data Sheet Dichloromalononitrile, 97%

ACC# 69947

## Section 1 - Chemical Product and Company Identification

MSDS Name: Dichloromalononitrile, 97%

Catalog Numbers: AC113450000, AC113450010, AC113450050

Synonyms: Malononitrile, dichloro-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
13063-43-9	Dichloromalononitrile	97	235-955-4

## Section 3 - Hazards Identification

#### **EMERGENCY OVERVIEW**

Appearance: clear yellow clear liquid.

Warning! Toxic. Lachrymator (substance which increases the flow of tears). Harmful if swallowed. Causes severe eye and skin

irritation. May cause respiratory and digestive tract irritation.

Target Organs: No data found.

#### **Potential Health Effects**

**Eye:** Causes severe eye irritation. Lachrymator (substance which increases the flow of tears). May cause chemical conjunctivitis and corneal damage.

Skin: Causes severe skin irritation.

**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause muscle weakness and anorexia.

Inhalation: May cause respiratory tract irritation. May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath,

headache, nausea, and vomiting. **Chronic:** Effects may be delayed.

## 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 imme diately. Do NOT allow victim to rub eyes or keep eyes closed.

Skin: Get medical aid. 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. If breathing is difficult, give oxygen. 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. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

**Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Flash Point: > 112 deg C (> 233.60 deg F) Autoignition Temperature: Not applicable. Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 0

#### 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.

## Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood. Do not breathe vapor. Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. 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 ventilation to keep airborne concentrations low.

**Exposure Limits** 

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

OSHA Vacated PELs: Dichloromalononitrile: 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 and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

## Section 9 - Physical and Chemical Properties

Physical State: Clear liquid Appearance: clear yellow Odor: None reported. pH: Not available.

Vapor Pressure: Not available.

Vapor Density: 4.65

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 97 deg C @ 760.00mmHg Freezing/Melting Point: Not available. **Decomposition Temperature:**Not available.

Solubility: Not available.

Specific Gravity/Density:1.3120g/cm3

Molecular Formula:C3Cl2N2 Molecular Weight: 134.95

## Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, excess heat.

Incompatibilities with Other Materials: Strong acids, strong bases, strong oxidizing agents, strong reducing agents. Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide, chloride fumes.

Hazardous Polymerization: Has not been reported.

## Section 11 - Toxicological Information

RTECS#:

CAS# 13063-43-9: 003740000

LD50/LC50: CAS# 13063-43-9:

Draize test, rabbit, skin: 200 uL/24H Severe;

Oral, rabbit: LD50 = >126 mg/kg; Oral, rat: LD50 = 130 mg/kg;

LD50: Oral, rat = 130Carcinogenicity:

CAS# 13063-43-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available. Teratogenicity: No data available. Reproductive Effects: No data available.

Mutagenicity: No data available. Neurotoxicity: No data available.

Other Studies:

## 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	
Shipping Name:	DOT regulated - small quantity provisions apply (see 49CFR173.4)	TOXIC LIQUID ORGANIC NOS (DICHLOROMALONONITRILE)	
Hazard Class:		6.1	
UN Number:		UN2810	
Packing Group:		II	

# Section 15 - Regulatory Information

#### **US FEDERAL**

#### **TSCA**

CAS# 13063-43-9 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 depletors.

This material does not contain any Class 2 Ozone depletors.

#### **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# 13063-43-9 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

## 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:** 

## Risk Phrases:

R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

## Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

# WGK (Water Danger/Protection)

CAS# 13063-43-9: 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 D1A, 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

## Section 16 - Additional Information

**MSDS Creation Date:** 9/02/1997 **Revision #7 Date:** 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.