

# Material Safety Data Sheet

## Mitomycin C (Contains 2mg Mitomycin C and 48mg Sodium Chloride)

ACC# 54580

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Mitomycin C (Contains 2mg Mitomycin C and 48mg Sodium Chloride)

**Catalog Numbers:** AC226940020

**Synonyms:** Ametycine.

#### 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
50-07-7	Mitomycin C	4	200-008-6
7647-14-5	Sodium chloride	Balance	231-598-3

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: blue-violet crystalline powder.

**Warning!** Harmful if swallowed. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause cancer based on animal studies. Potential cancer hazard. May cause adverse reproductive effects based upon animal studies.

**Target Organs:** Liver, bone marrow.

#### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** Harmful if swallowed. May cause liver damage. May cause digestive tract disturbances. May cause bone marrow depression.

**Inhalation:** May cause respiratory tract irritation. May cause effects similar to those described for ingestion. May cause pulmonary fibrosis and permanent damage.

**Chronic:** May cause cancer according to animal studies. Chronic exposure may cause liver damage. Adverse reproductive effects have been reported in animals. Potential cancer hazard.

### 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.

**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:** Do not induce vomiting. 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.

**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. Do NOT use mouth-to-mouth resuscitation.

**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. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

**Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

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

**Upper:** Not available.

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

### 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. Sweep up, then place into a

suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale.

**Storage:** Do not store in direct sunlight. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Hormones and antibiotics room. Store below 40°C.

## 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
Mitomycin C	none listed	none listed	none listed
Sodium chloride	none listed	none listed	none listed

**OSHA Vacated PELs:** Mitomycin C: No OSHA Vacated PELs are listed for this chemical. Sodium chloride: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear safety glasses and chemical goggles if splashing is possible.

**Skin:** Wear appropriate protective gloves and clothing to prevent skin exposure.

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

**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:** blue-violet

**Odor:** None reported.

**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:** > 360 deg C

**Decomposition Temperature:** Not available.

**Solubility:** soluble

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

**Molecular Formula:** C15H18N4O5

**Molecular Weight:** 334.32

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, light, dust generation, excess heat, temperatures above 40°C.

**Incompatibilities with Other Materials:** Strong oxidizing agents - strong acids - strong bases.

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

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

## Section 11 - Toxicological Information

### RTECS#:

**CAS# 50-07-7:** CN0700000

**CAS# 7647-14-5:** VZ4725000

### LD50/LC50:

**CAS# 50-07-7:**

Oral, mouse: LD50 = 23 mg/kg;

Oral, rat: LD50 = 30 mg/kg;

**CAS# 7647-14-5:**

Draize test, rabbit, eye: 100 mg Mild;

Draize test, rabbit, eye: 100 mg/24H Moderate;

Draize test, rabbit, eye: 10 mg Moderate;

Draize test, rabbit, skin: 50 mg/24H Mild;

Draize test, rabbit, skin: 500 mg/24H Mild;

Inhalation, rat: LC50 = >42 qm/m3/1H;

Oral, mouse: LD50 = 4 gm/kg;  
Oral, rat: LD50 = 3000 mg/kg;  
Skin, rabbit: LD50 = >10 gm/kg;

#### **Carcinogenicity:**

CAS# 50-07-7:

- **ACGIH:** Not listed.
- **California:** carcinogen, initial date 4/1/88
- **NTP:** Not listed.
- **IARC:** Group 2B carcinogen

CAS# 7647-14-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** IARC Group 2B: Proven animal carcinogenic substance of potential relevance to humans. IARC Group 2B: No data available on human carcinogenicity, however sufficient evidence of carcinogenicity in animals. Experimental reproductive effects have been reported.

**Teratogenicity:** No information found

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

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

**Neurotoxicity:** No information found

**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# 50-07-7: waste number U010.

### Section 14 - Transport Information

	<b>US DOT</b>	<b>Canada TDG</b>
<b>Shipping Name:</b>	DOT regulated - small quantity provisions apply (see 49CFR173.4)	TOXIC SOLID ORGANIC NOS (MITOMYCIN)
<b>Hazard Class:</b>		6.1
<b>UN Number:</b>		UN2811
<b>Packing Group:</b>		II

### Section 15 - Regulatory Information

#### **US FEDERAL**

##### **TSCA**

CAS# 50-07-7 is listed on the TSCA inventory.

CAS# 7647-14-5 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**

CAS# 50-07-7: Section 5

##### **TSCA Significant New Use Rule**

CAS# 50-07-7: This product is for research and development use only. It is subject to a SNUR which has specific requirements and restrictions. The specific citation for this product is 40CFR citation 721.5175.

##### **CERCLA Hazardous Substances and corresponding RQs**

CAS# 50-07-7: 10 lb final RQ; 4.54 kg final RQ

##### **SARA Section 302 Extremely Hazardous Substances**

CAS# 50-07-7: 500 lb TPQ (lower threshold); 10000 lb TPQ (upper thresh old)

##### **SARA Codes**

CAS # 7647-14-5: immediate.

##### **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# 50-07-7 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 7647-14-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

**California Prop 65****The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:**

WARNING: This product contains Mitomycin C, a chemical known to the state of California to cause cancer.

California No Significant Risk Level: CAS# 50-07-7: 0.00009  $\mu\text{g}/\text{day}$  NSRL

**European/International Regulations****European Labeling in Accordance with EC Directives****Hazard Symbols:**

T

**Risk Phrases:**

R 25 Toxic if swallowed.

R 33 Danger of cumulative effects.

**Safety Phrases:**

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# 50-07-7: 3

CAS# 7647-14-5: 0

**Canada - DSL/NDSL**

CAS# 7647-14-5 is listed on Canada's DSL List.

CAS# 50-07-7 is listed on Canada's NDSL List.

**Canada - WHMIS**

not available.

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:** 2/02/1998

**Revision #5 Date:** 10/03/2005

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