

# Material Safety Data Sheet

## Ethyl iodoacetate, 98%

ACC# 96945

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Ethyl iodoacetate, 98%

**Catalog Numbers:** AC222190100, AC222190500

**Synonyms:**

**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
623-48-3	Ethyl iodoacetate	98	210-796-3

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: Clear liquid. Flash Point: 170 deg F.

**Danger!** May be fatal if swallowed. Water-reactive. Causes respiratory tract irritation. Causes skin irritation. **Combustible liquid and vapor.** May cause central nervous system effects. Causes severe eye burns. Moisture sensitive. The toxicological properties of this material have not been fully investigated.

**Target Organs:** Central nervous system.

#### Potential Health Effects

**Eye:** Causes severe eye burns.

**Skin:** Causes skin irritation.

**Ingestion:** May be fatal if swallowed. May cause central nervous system effects.

**Inhalation:** Causes respiratory tract irritation.

**Chronic:** No information found.

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

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

**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.

**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. Use water spray to keep fire-exposed containers cool. Water Reactive. Combustible liquid. Substance may react with water, and may release corrosive and/or toxic gases. Containers may explode when heated. Vapors are flammable above 83C (182F) in vessels of adequate size.

**Extinguishing Media:** Do NOT use water directly on fire. Do NOT get water inside containers. Use dry chemical or carbon dioxide.

**Flash Point:** 170e deg F ( 76.67 deg C)

**Autoignition Temperature:** Not available.

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

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 3; Flammability: 1; Instability:; Special Hazard: -W-

### 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. Remove all sources of ignition. Provide ventilation. Do not get water inside containers.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Keep away from heat, sparks and flame. Do not ingest or inhale.

**Storage:** Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep refrigerated. (Store below 4°C/39°F.)

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ethyl iodoacetate	none listed	none listed	none listed

**OSHA Vacated PELs:** Ethyl iodoacetate: 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:** 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

**Odor:** None reported

**pH:** Not available.

**Vapor Pressure:** 0.8 mm Hg @20C

**Vapor Density:** 7.4

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 179 deg C

**Freezing/Melting Point:** Not available.

**Decomposition Temperature:** Not available.

**Solubility:** Not available.

**Specific Gravity/Density:** 1.8170g/cm<sup>3</sup>

**Molecular Formula:** C<sub>4</sub>H<sub>7</sub>IO<sub>2</sub>

**Molecular Weight:** 214.00

## Section 10 - Stability and Reactivity

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

**Conditions to Avoid:** Incompatible materials, ignition sources, exposure to moist air or water.

**Incompatibilities with Other Materials:** Acids, bases, strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, hydrogen iodide.

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

## Section 11 - Toxicological Information

### RTECS#:

CAS# 623-48-3: AI3575000

### LD50/LC50:

CAS# 623-48-3:

Oral, mouse: LD50 = 50 mg/kg;

Oral, rat: LD50 = 50 mg/kg;

Oral, rat: LD50 = 50

### Carcinogenicity:

CAS# 623-48-3: 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 12 - Ecological Information

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

**Environmental:** Ethyl chloroacetate will leach groundwater if released to soil. In water it will slowly hydrolyze. It is not expected to bioconcentrate or volatilize from water or soil so it is unlikely that ethyl chloroacetate will enter the atmosphere. In the event that it does, its half-life will be about 14.95 days. Degradation is expected via reaction with atmospheric hydroxyl radicals to form small, oxygenated organic molecules. Biodegradable: >75%

**Physical:** No information available.

**Other:** 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:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	TOXIC LIQUIDS, ORGANIC, N.O.S.	TOLUDINES LIQUID
<b>Hazard Class:</b>	6.1	6.1
<b>UN Number:</b>	UN2810	UN1708
<b>Packing Group:</b>	II	II

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 623-48-3 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

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# 623-48-3 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:

T C

#### Risk Phrases:

R 25 Toxic if swallowed.

R 35 Causes severe burns.

#### Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

S 38 In case of insufficient ventilation, wear suitable respiratory equipment.

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

S 28A After contact with skin, wash immediately with plenty of water

**WGK (Water Danger/Protection)**

CAS# 623-48-3: No information available.

**Canada - DSL/NDSL**

CAS# 623-48-3 is listed on Canada's NDSL List.

**Canada - WHMIS**

This product has a WHMIS classification of E, D1B, B6.

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:** 7/01/1998

**Revision #3 Date:** 10/08/2003

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