



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

**Product Name:** 2-Dimethylaminoethyl acrylate      **Molecular Formula:** C<sub>7</sub>H<sub>13</sub>NO<sub>2</sub>  
**Catalog Number(s):** M-240  
**Company:** Scientific Polymer Products, Inc.  
6265 Dean Parkway  
Ontario, NY 14519  
**Telephone:** 585/265-0413  
**Fax:** 585/265-1390  
**Website:** www.scipoly.com  
**Emergency Phone Number:** 800-255-3924 (CHEM TEL)

Section 2: Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids, Category 3, H226  
Acute toxicity, Oral, Category 4, H302  
Acute toxicity, Inhalation, Category 1, H330  
Acute toxicity, Dermal, Category 3, H311  
Skin corrosion, Category 1B, H314  
Serious eye damage, Category 1, H318  
Skin sensitization, Category 1, H317  
Acute aquatic toxicity, Category 1, H400

GHS Label elements, including precautionary statements

Pictogram(s)



Signal word(s): Danger

Hazard Statement(s):

H226 Flammable liquid and vapor.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and damage.  
H318 Causes serious eye damage.  
H330 Fatal if inhaled.  
H400 Very toxic to aquatic life.

Precautionary Statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P301+P330+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340+P310	IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P333+P313	If skin irritation or rash occurs, get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire, use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.
P305+P351+P338+P310	IF IN EYES, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** Lachrymator, rapidly absorbed through skin

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

### Section 3: Composition/Information on Ingredients

Ingredient	CAS umber	Concentration (%)
2-Dimethylaminoethyl acrylate	2439-35-2	100

### Section 4: First Aid Measures

**Description of First Aid Measures:**

**General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If Inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In Case of Skin Contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In Case of Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If Swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most Important Symptoms and Effects, both Acute and Delayed**

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

**Indication of any Immediate Medical Attention and Special Treatment Needed**

No data available

## Section 5: Fire-Fighting Measures

### Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

### Special Hazards Arising from the Substance or Mixture

Carbon oxides, nitrogen oxides (NOx)

### Advice for Fire-fighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

### Further Information

Use water spray to cool unopened containers.

## Section 6: Accidental Release Measures

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see Section 8.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and Material for Containment and Cleaning Up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see Section 13).

**Reference to Other Sections:** For disposal, see Section 13

## Section 7: Handling and Storage

### Precautions for safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see Section 2.

### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature: 2-8°C

Heat-, light-, and moisture-sensitive  
Storage Class (TRGS 510)-Flammable liquids

### Specific End Use(s)

Laboratory chemicals, manufacture of substances

## Section 8: Exposure Controls/Personal Protection

### Control Parameters

### Components with workplace control parameters

Contains no substances with occupational exposure limit values

### Exposure Controls

### Appropriate Engineering Controls

Avoid contact with skin, eyes, and clothing. Wash hands before 3 breaks and immediately after handling the product.

## Personal Protective Equipment

### Eye/Face Protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

### Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Body Protection

Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

a)	Appearance	Form: Liquid
b)	Odor	Amine-like
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	172.8°C
g)	Flash point	58°C (DIN 51755, Closed cup)
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	0.938 (20°C)
n)	Water solubility	240 g/l (20°C)
o)	Partition coefficient: n- octanol/water	Log Pow 0.68 (25°C)
p)	Auto-ignition temperature	195°C
q)	Decomposition temperature	No data available
r)	Viscosity	1.34 mPas
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

### Other safety information

No data available

## Section 10: Stability and Reactivity

### Reactivity

No data available

### Chemical Stability

Stable under recommended storage conditions. Contains the following stabilizer(s): Mequinol (<= -/2%)

### Possibility of Hazardous Reactions

No data available

**Conditions to Avoid**

Heat, flames and sparks

**Incompatible Materials**

Strong oxidizing agents, strong bases, strong reducing agents

**Hazardous Decomposition Product(s)**

No data available

**Section 11: Toxicological Information****Information on Toxicological Effects****Acute Toxicity:**

LD50 Oral-Rat (Male & Female): 1,210 – 1,500 mg/kg  
 LC50 Inhalation-Rat (Male & Female): 4 h; 0.22 mg/l (OECD Test Guideline 403)  
 LD50 Dermal-Rat (Male & Female): 419 mg/kg (OECD Test Guideline 402)

**Skin Corrosion/Irritation:** Skin-Rabbit Result: Causes burns (OECD Test Guideline 404)  
**Serious Eye Damage/Eye Irritation:** Eyes-Rabbit Result: Severe eye irritation

**Respiratory or Skin Sensitization:**

Maximization Test (GPMT) – Guinea pig Result: May cause sensitization by skin contact (OECD Test Guideline 406)

**Germ Cell Mutagenicity:**

Hamster, Ovary Result: Negative (OECD Test Guideline 474)  
 Mouse (Male & Female) Result: Negative

**Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:**

No data available

**Specific Target Organ Toxicity-Single Exposure:** May cause respiratory irritation**Specific Target Organ Toxicity-Repeated Exposure:** No data available**Aspiration Hazard:** No data available**Additional Information:**

Repeated dose toxicity – Rat – male and female – No observed adverse effect level – 10 mg/kg. RTECS: AS8578000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Dizziness, Drowsiness, Confusion, Weakness, muscle cramps, Change in pupil size. Fever, Seizures, Incoordination, Convulsions, Coma, Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhea, tremor, ataxia, sweating, hypothermia, lowered heart rate, and/or a fall in blood pressure as a result of their action at cholinergic nerve sites.

Stomach – Irregularities – Based on Human Evidence

**Section 12: Ecological Information****Toxicity:**Toxicity to Fish: semi-static test LC50 – *Oryzias latipes* – 8.49 mg/l – 96 h (OECD Test Guideline 203)Toxicity to Daphnia and other Aquatic Invertebrates: Immobilization EC50 – *Daphnia magna* (Water flea) – 9.92 mg/l – 48 h (OECD Test Guideline 202)Toxicity to Algae: static test EC50-*Desmodesmus subspicatus* (*Scenedesmus subspicatus*) – 0.88 mg/l – 72 h

**Persistence & Degradability:**

Biodegradability: aerobic – exposure time 28 d Result: 96% - Readily biodegradable

**Bio accumulative Potential:** No data available**Mobility in Soil:** No data available**Results of PBT and vPvB Assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/ not conducted.**Other Adverse Effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.**Section 13: Disposal Considerations****Waste treatment methods****Product**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional and national hazardous waste regulations to ensure complete and accurate classification.

**Contaminated packaging**

Dispose of as unused product.

**Section 14: Transport Information****DOT (US)**

UN number: 3302 Class: 6.1 Packing group: II

Proper shipping name: 2-Dimethylaminoethyl acrylate

Poison Inhalation Hazard: No

**IMDG**

UN number: 3302 Class: 6.1 Packing group: II

Proper shipping name: 2-Dimethylaminoethyl acrylate

**IATA**

UN number: 3302 Class: 6.1 Packing group: II

Proper shipping name: 2-Dimethylaminoethyl acrylate

**Section 15: Regulatory Information****SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Massachusetts Right-to-Know Components**

No components are subject to the Massachusetts Right-to-Know Act

**Pennsylvania Right-to-Know Components**

	CAS-No.
2-Dimethylaminoethyl acrylate	2439-35-2

**New Jersey Right-to-Know Components**

	CAS-No.
2-Dimethylaminoethyl acrylate	2439-35-2

**California Proposition 65 Components:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16: Other Information

### HMIS Rating

Health: 3  
Flammability: 3  
Reactivity: 2

### NFPA Rating

Health: 3  
Flammability: 3  
Reactivity: 2

This material is intended for laboratory use only. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.