SAFETY DATA SHEET

Revision Date: 08/08/24

Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: 2-Dimethylaminoethyl acrylate **Molecular Formula:** $C_7H_{13}NO_2$

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 before3 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
Compete 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 date 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 know the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

HMIS Rating		**NFPA Rating**	
Health:	3	Health:	3
Flammability:	3	Flammability:	3
Reactivity:	2	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.