

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### **SECTION 1: Identification**

#### Identification

: Substance Product form

Trade name : 2-(N,N-Dimethylamino)ethyl acrylate

CAS-No. : 2439-35-2 Product code . 02257 : C7H13NO2 Formula

#### 1.2. Recommended use and restrictions on use

Recommended use : Use as laboratory reagent, Manufacture of substances

#### 1.3. **Supplier**

### Supplier

**Polysciences** 400 Valley Road

Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214

info@polysciences.com - www.polysciences.com

#### 1.4. **Emergency telephone number**

**Emergency number** : 24-hour emergency phone number ChemTel 1-800-255-3924

### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### **GHS US classification**

Flammable liquids Category 4 Combustible liquid Acute toxicity (oral) Category 2 Fatal if swallowed Acute toxicity (dermal) Category 2 Acute toxicity (inhalation) Category 1 Fatal in contact with skin Fatal if inhaled

Skin corrosion/irritation Category 1C Causes severe skin burns and eve damage

Serious eye damage/eye irritation Category 1 Causes serious eye damage Serious eye damage/eye irritation Category 2B Causes eye irritation

Skin sensitization, category 1B May cause an allergic skin reaction Very toxic to aquatic life

Hazardous to the aquatic environment - Acute Hazard

Category 1

Hazardous to the aquatic environment – Chronic Hazard Harmful to aquatic life with long lasting effects

Category 3

### GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)









Signal word (GHS US) : Danger

Hazard statements (GHS US) Combustible liquid

Fatal if swallowed, in contact with skin or if inhaled Causes severe skin burns and eye damage

May cause an allergic skin reaction Causes serious eye damage Causes eye irritation Very toxic to aquatic life

Harmful to aquatic life with long lasting effects

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product.

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#### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Name	Product identifier	%	GHS US classification
2-(N,N-Dimethylamino)ethyl acrylate (Main constituent)	(CAS-No.) 2439-35-2	≤ 100	Flam. Liq. 4, H227 Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Eye Irrit. 2B, H320 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures

Not applicable

#### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a physician immediately.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a

physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Call a physician immediately. Do not induce vomiting.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact : Serious damage to eyes. Mild eye irritation.

Symptoms/effects after ingestion : Burns.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapor. Combustible liquid.

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable

protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

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#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof

equipment. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store at 4 deg. C. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Store locked up.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 2-(N,N-Dimethylamino)ethyl acrylate (2439-35-2)

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

### Personal protective equipment symbol(s):



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## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : light yellow liquid amine.

Color : No data available

Odor threshold : No data available

pH : No data available

To data available

No data available

No data available

Melting point : no data

Freezing point : No data available

Boiling point :  $64 \,^{\circ}\text{C C}$ Flash point :  $138 \,^{\circ}\text{F F}$ 

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapor pressure : 18.095 mm Hg

Relative vapor density at 20°C : low

Relative density : No data available

Molecular mass : 143.1

Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic **Explosion limits** : No data available Explosive properties No data available : No data available Oxidizing properties

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Flammable liquid and vapor.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Fatal if swallowed.

Acute toxicity (dermal) : Fatal in contact with skin.

Acute toxicity (inhalation) : Fatal if inhaled.

### 2-(N,N-Dimethylamino)ethyl acrylate (2439-35-2)

LD50 oral rat 455 μg/kg mg/kg
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2-(N,N-Dimethylamino)ethyl acrylate (2439-35-2)		
LC50 Inhalation - Rat	66 mg/m³ mg/m3	
ATE US (oral)	0.455 mg/kg body weight	
ATE US (dermal)	50 mg/kg body weight	
ATE US (gases)	10 ppmV/4h	
ATE US (vapors)	0.066 mg/l/4h	
ATE US (dust, mist)	0.066 mg/l/4h	

Skin corrosion/irritation : Causes severe skin burns.

Serious eye damage/irritation : Causes serious eye damage. Causes eye irritation.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact : Serious damage to eyes. Mild eye irritation.

: No data available

Symptoms/effects after ingestion : Burns.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general

Viscosity, kinematic

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapors may accumulate in the container.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN3302 2-Dimethylaminoethyl acrylate, stabilized, 6.1, II

UN-No.(DOT) : UN3302

Proper Shipping Name (DOT) : 2-Dimethylaminoethyl acrylate, stabilized

Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Packing group (DOT) : II - Medium Danger

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Hazard labels (DOT) : 6.1 - Poison



Dangerous for the environment : Yes

Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 243
DOT Special Provisions (49 CFR 172.102) : IB2

: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal................. 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153
DOT Quantity Limitations Passenger aircraft/rail : 5 L
(49 CFR 173.27)

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DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location

: D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.

DOT Vessel Stowage Other : 25 - Protected from sources of heat

Emergency Response Guide (ERG) Number : 15

Other information : No supplementary information available.

### **Transportation of Dangerous Goods**

Not applicable

#### Transport by sea

Transport document description (IMDG) : UN 3302 2-DIMETHYLAMINOETHYL ACRYLATE, 6.1, II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

UN-No. (IMDG) : 3302

Proper Shipping Name (IMDG) : 2-DIMETHYLAMINOETHYL ACRYLATE

Class (IMDG) : 6.1 - Toxic substances

Packing group (IMDG) : II - substances presenting medium danger

Limited quantities (IMDG) : 100 ml
Marine pollutant : Yes



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#### Air transport

Transport document description (IATA) : UN 3302 2-Dimethylaminoethyl acrylate, stabilized, 6.1, II, ENVIRONMENTALLY

**HAZARDOUS** 

UN-No. (IATA) : 3302

Proper Shipping Name (IATA) : 2-Dimethylaminoethyl acrylate, stabilized

Class (IATA) : 6.1 - Toxic Substances
Packing group (IATA) : II - Medium danger

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

### 2-(N,N-Dimethylamino)ethyl acrylate (2439-35-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### **CANADA**

#### 2-(N,N-Dimethylamino)ethyl acrylate (2439-35-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### **EU-Regulations**

#### **National regulations**

No additional information available

#### 15.3. US State regulations

### **SECTION 16: Other information**

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Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high

temperatures and pressures. Materials may react non-violently with water or undergo hazardous

polymerization in the absence of inhibitors.

### SDS US (GHS HazCom 2012)

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