# **SAFETY DATA SHEET**

Revision Date: 10/11/17

#### Section 1: Identification

### PRODUCT AND COMPANY INFORMATION

Product Name: Allyl glycidyl ether Molecular Formula: C<sub>6</sub>H<sub>10</sub>O<sub>2</sub>

Catalog Number(s): M-241

**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 3, H331
Skin irritation, Category 2, H315
Serious eye damage, Category 1, H318
Skin sensitization, Category 1, H317
Germ cell mutagenicity, Category 2, H341
Carcinogenicity, Category 2, H351

Reproductive toxicity, Category 2, H351

Specific target organ toxicity- single exposure, Category 3, Respiratory system, H335

Acute aquatic toxicity, Category 3, H402 Chronic aquatic toxicity, Category 3, H412

## GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.

H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H412 Harmful to aquatic life with long lasting effects.

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Precautionary statement(s)					
P201	Obtain special instructions before use.				
P202	Do not handle until all safety precautions have been read and understood.				
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.				
P261	Avoid breathing 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.				
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.				
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.				
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P310	Immediately call a POISON CENTER/doctor.				
P330	Rinse mouth.				
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.				
P362	Take off contaminated clothing and wash before reuse.				
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol resistant foam to extinguish.				

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.

# Hazards not otherwise classified (HNOC) or not covered by GHS - none

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.

Store in a well ventilated place. Keep container tightly closed.

# Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Allyl glycidyl ether	106-92-3	100

# **Section 4: First Aid Measures**

#### Description of first aid measures

### **General advice**

P403+P233

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

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.

## 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 in section 11

## Indication of any immediate medical attention and special treatment needed

No data available

# **Section 5: Fire-Fighting Measures**

#### Suitable extinguishing media

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

# Special hazards arising from the substance or mixture

Carbon oxides

### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **Further information**

No data available

#### 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 materials 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. Keep in suitable, closed containers for disposal.

#### 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 buildup 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.

Store under inert gas.

### Specific end use(s)

Laboratory chemicals, Manufacture of substances

# **Section 8: Exposure Controls/Personal Protection**

### **Control parameters**

Components with workplace control parameters

Component	CAS No.	Value	Control parameters	Basis	
Allyl glycidyl ether	106-92-3	STEL	10 ppm 44 mg/m3	USA. OSHA- Table Z-1 Limits for Air Contaminants- 1910.1000	
		С	10 ppm 45 mg/m3	USA. Occupational Exposure Limits (OSHA)- Table Z-1 Limits for Air Contaminants	
	Remarks	The value in mg/m3 is approximate. Ceiling limit is to be determined from breathing-zone air samples			
		TWA	1 ppm	USA. ACGIH Threshold Limit Values (TLV)	
		Upper Respir	Upper Respiratory Tract Irritation		
		Skin and eye irritation			
		Dermatitis			
		Not classifiable as a human carcinogen			
		TWA 5 ppm USA. OSHA- Table Z-1 Lim		USA. OSHA- Table Z-1 Limits for Air	
			22 mg/m3	Contaminants- 1910.1000	
		TWA	5 ppm	USA. NIOSH Recommended Exposure	
			22 mg/m3	Limits	
		Potential for	dermal absorption		
		ST	10 ppm USA. NIOSH Recommended Ex		
			44 mg/m3	Limits	
		Potential for dermal absorption			

#### **Exposure controls**

# **Appropriate engineering controls**

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

### Personal protective equipment

# Eye/face protection

Face shield(8-inch minimum) and tightly fitting safety goggles. 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. 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 of 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	No data available
c)	Odor Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available

Flash point 57° C (135° F)- Closed cup g) Evaporation rate No data available h) Flammability (solid, gas) i) No data available Flammability or explosive limits j) Upper No data available Lower No data available k) Vapor pressure No data available Vapor density No data available m) Relative density 0.97 n) Water solubility No data available Partition coefficient: n- octanol/water 0) No data available Auto-ignition temperature No data available p) Decomposition temperature No data available q) Viscosity No data available Explosive properties No data available s) 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.

## Possibility of hazardous reactions

No data available

#### Conditions to avoid

Heat, flames and sparks

## **Incompatible materials**

Strong oxidizing agents

# **Hazardous decomposition products**

Other decomposition products- no data available

In the event of fire: see section 5

# **Section 11: Toxicological Information**

### **Acute toxicity**

LD50 Oral- Rat- 1,600 mg/kg

Remarks: Brain and coverings: Recordings from specific areas of CNS. Behavioral: Change in motor activity (specific assay). Behavioral: Ataxia.

LC50 Inhalation- Rat-male- 8 h- 670 ppm

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear and Taste): Eye-Corneal damage. Lungs, Thorax or Respiration: Acute pulmonary edema. Gastrointestinal: Changes in structure or function of salivary glands.

LD50 Dermal-Rabbit-2,550 mg/kg

#### Skin Corrosion/Irritation

Skin-Rabbit

Result: Skin irritation 3 h

# Serious Eye Damage/Eye Irritation

Eyes-Rabbit

Result: Severe eye irritation- 24 h

### Respiratory or Skin Sensitization

No data available

# **Germ Cell Mutagenicity**

Laboratory experiments have shown mutagenic effects.

In vitro tests showed mutagenic effects

Hamster

Ovarv

Sister chromatid exchange

# Carcinogenicity

Carcinogenicity- Rat- Inhalation

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Sense Organs and Special Senses (Nose, Eye, Ear and Taste): Olfaction: Tumors.

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP or EPA classification.

Limited evidence of carcinogenicity in animal studies

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**

Suspected human reproductive toxicant

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals

# Specific Target Organ Toxicity - Single Exposure

Inhalation- May cause respiratory irritation

# Specific Target Organ Toxicity – Repeated Exposure

No data available

### **Aspiration Hazard**

No data available

### **Additional Information:**

RTECS: RR0875000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **Section 12: Ecological Information**

# **Toxicity**

Toxicity to fish LC50- Carassius auratus (Goldfish) -30.0 mg/l -96.0 h

### Persistence & Degradability

No data available

# **Bioaccumulation 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. Harmful to aquatic life with long lasting effects.

# **Section 13: Disposal Considerations**

#### Waste treatment methods

#### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

# **Contaminated packaging**

Dispose of as unused product.

# **Section 14: Transport Information**

Packing group: III

DOT (US)

UN number: 2219 Class: 3

Proper shipping name: Allyl glycidyl ether

Marine pollutant: No Poison Inhalation Hazard: No

**IMDG** 

UN number: 2219 Class: 3 Packing group: III

Proper shipping name: Allyl glycidyl ether

Marine pollutant: No

**IATA** 

UN number: 2219 Class: 3 Packing group: III

Proper shipping name: Allyl glycidyl ether

# **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.

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components** 

CAS No. Allyl glycidyl ether 106-92-3

**Pennsylvania Right To Know Components** 

CAS No. Allyl glycidyl ether 106-92-3

**New Jersey Right To Know Components** 

CAS No. Allyl glycidyl ether 106-92-3

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **Section 16: Other Information**

HMIS Rating NFPA Rating

Health:2Health:2Flammability:2Flammability:2Reactivity:0Reactivity:0

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.