



**Section 1: Identification**

**PRODUCT AND COMPANY INFORMATION**

<b>Product Name:</b>	Vinyl acetate	<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>
<b>Catalog Number(s):</b>	M-103		
<b>Company:</b>	Scientific Polymer Products, Inc. 6265 Dean Parkway Ontario, NY 14519		
<b>Telephone:</b>	585/265-0413		
<b>Fax:</b>	585/265-1390		
<b>Website:</b>	www.scipoly.com		
<b>Emergency Phone Number:</b>	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 2, H225  
Acute toxicity, Inhalation, Category 4, H332  
Carcinogenicity, 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)**

H225	Highly flammable liquid and vapor.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.

**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.

P271	Use only outdoors or in a well-ventilated area.
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+P312	IF INHALED, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER doctor/physician if you feel unwell.
P308+P313	IF exposed or concerned, get medical advice/attention.
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 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.

**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.

### Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Vinyl acetate	108-05-4	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

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Flush eyes with water as a precaution.

##### 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

Flash back possible over considerable distance. Container explosion may occur under fire conditions.

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

Use water spray to cool unopened containers

### Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. 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 (see section 13). 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. Use explosion-proof equipment. Keep away from sources of ignition-No smoking. Take measure 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.

Recommended storage temperature 2-8° C  
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**

Component	CAS-No	Value	Control parameters	Basis
Vinyl acetate	108-05-4	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Confirmed animal carcinogen with unknown relevance to humans		
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Confirmed animal carcinogen with unknown relevance to humans		
		C	4 ppm 15 mg/m3	USA. NIOSH Recommended Exposure Limits

		15 minute ceiling value		
		PEL	10 ppm 30 mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	15 ppm 45 mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

## Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 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 of spillage if safe to do so. Do not let product enter drains.

## 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)	pH	No data available
e)	Melting point/freezing point	T <sub>m</sub> = -93° C
f)	Initial boiling point and boiling range	72° C
g)	Flash point	7° C (20° F)- closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Flammability or explosive limits	
	Upper	No data available
	Lower	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	Slight
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available

- |    |                      |                   |
|----|----------------------|-------------------|
| r) | Viscosity            | No data available |
| 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.

**Possibility of hazardous reactions**

Unstable upon depletion of inhibitor. Vapors may form explosive mixture with air.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Acids, Bases, Oxidizing agents, Peroxides

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions- Carbon oxides

Other decomposition products- no data available

In the event of fire: see section 5

**Section 11: Toxicological Information****Acute toxicity**

LD50 Oral- Rat- 2,900 mg/kg

LC50 Inhalation –Rat- 4 h – 14.1 mg/l

LD50 Dermal- Rabbit- 2,335 mg/kg

LD50 Dermal- Rabbit- 7,440 mg/kg

**Skin Corrosion/Irritation**

Skin- Rabbit

Result: No skin irritation

(OECD Test Guideline 404)

**Serious Eye Damage/Eye Irritation**

Eyes- Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

**Respiratory or Skin Sensitization**

In vivo assay- Mouse

Does not cause skin sensitization

(OECD Test Guideline 429)

**Germ Cell Mutagenicity**

In vitro assay

Lymphocyte

Result: Equivocal evidence

Chromosome aberration test in vitro

Other cell types

Result: positive

Result: Not mutagenic in Ames Test

**Carcinogenicity:**

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

IARC: 2B-Group 2B: Possibly carcinogenic to humans (Vinyl acetate)

NTP: 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 NTP.

OSHA: 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 OSHA.

#### **Reproductive Toxicity**

No data available

#### **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: AK0875000

## **Section 12: Ecological Information**

#### **Toxicity**

Toxicity to fish

NOEC- Pimephales promelas (Fathead minnow) – 4 mg/l – 96 h

LC50- Pimephales promelas (Fathead minnow) – 32mg/l -96 h

LOEC- Pimephales promelas (Fathead minnow) - 7.6 mg/l – 96 h

Toxicity to daphnia and  
Other aquatic  
invertebrates

EC50- Daphnia magna (Water flea) – 4.7 mg/l – 48 h  
(OECD Test Guideline 202)

Toxicity to algae

IC50- Pseudokirchneriella subcapitata (green algae) – 1.4 mg/l -72 h

#### **Persistence & Degradability**

Biodegradability

Aerobic- Exposure time 28 d

Result: >60%- Readily biodegradable

#### **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. 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: 1301                      Class: 3                      Packing group: II  
Proper shipping name: Vinyl acetate, stabilized  
Reportable quantity (RQ): 5000 lbs.  
Poison Inhalation Hazard: No

**IMDG**

UN number: 1301                      Class: 3                      Packing group: II  
Proper shipping name: Vinyl acetate, stabilized

**IATA**

UN number: 1301                      Class: 3                      Packing group: II  
Proper shipping name: Vinyl acetate, stabilized

### 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**

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS No.
Vinyl acetate	108-05-4

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS No.
Vinyl acetate	108-05-4

**Pennsylvania Right To Know Components**

	CAS No.
Vinyl acetate	108-05-4

**New Jersey Right To Know Components**

	CAS No.
Vinyl acetate	108-05-4

**California Prop. 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:	2
Flammability:	3
Reactivity:	0

**NFPA Rating**

Health:	2
Flammability:	3
Reactivity:	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.