



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: Vinyl acetate **Molecular Formula:** C₄H₆O₂
Catalog Number(s): M-103
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 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 ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	15 ppm 45 mg/m ³	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 _m = -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.