

(Vinyl Acetate Monomer)
DATE PREPARED: 12/21/2015

Section 1. Product and Company Identification

Product Name Vinyl Acetate Monomer

CAS Number 108-05-4

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924 All other Origins: 1 (813) 248-0585

Collect Calls Accepted

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

Pictograms:



Signal word: DANGER

Hazard and precautionary statements Hazard Statements

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 Statements

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.



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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/eye protection/face protection.

P281 Use personal protective equipment as required.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Call a POISON CENTER or 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 for extinction.

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.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Common Name Vinyl Acetate Monomer

Synonym(s) Acetoxyethylene

Formula $C_4H_6O_2$ CAS Number 108-05-4

COMPONENT	CAS NUMBER	CONCENTRATION
Vinyl Acetate Monomer	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.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

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

Eye contact: Flush eyes with water as a precaution.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.



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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. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides 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).

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 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



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Section 8. Exposure Controls / Personal Protection

Control parameters

Components with workplace control parameters

Component CAS		Value	Control	Basis	
	Number		Parameters		
Vinyl Acetate	108-05-4	TWA	10.000000 ppm	USA ACGIH Threshold Limit Values	
				(TLV)	
	Remarks	Central Nervous System impairment Upper Respiratory Tract			
		irritation Eye irritation Skin irritation Confirmed animal carci with unknown relevance to humans			
		STEL	15.000000 ppm	USA ACGIH Threshold Limit Values	
				(TLV)	
		Central N	rment Upper Respiratory Tract		
		irritation Eye irritation Skin irritation Confirmed animal carcin			
		with unkr	nans		
		С	4.000000 ppm	USA NIOSH Recommended	
			15.000000	Exposure Limits	
			mg/m³		
		15 minute ceiling value			

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 multipurpose 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.



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Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Liquid, clear

Color: Colorless

Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting point/freezing point: -93°C (-135°F)

Initial boiling point and boiling range: 72 - 73°C (162 - 163°F)

Flash point (Closed Cup): -7.99°C (17.62°F)

Evaporation rate: No data available

Flammability (solid, gas): No data available
Upper/lower flammability or explosive limits

Upper explosion limit: 13.4% (V) Lower explosion limit: 2.6% (V) Vapor pressure: No data available Vapor density: 2.97 - (Air = 1.0)

Relative density: 0.934 g/mL at 25°C (77°F) Water solubility: 20 g/l at 20°C (68°F)

Partition coefficient (n-octanol/water): log Pow: 3.0

Auto-ignition temperature: No data available **Decomposition temperature:** No data available

Viscosity: No data available

Explosive properties: No data available **Oxidizing properties:** No data available

Other safety information

Relative vapor density: $2.97 \cdot (Air = 1.0)$

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

Other decomposition products: No data available

In the event of fire: see section 5



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Section 11. Toxicological Information

Information on toxicological effects Acute toxicity

LD50 Oral - Rat: 2,900 mg/kg LC50 Inhalation - Rat: 14.1 mg/l (4h) 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

Limited evidence of carcinogenicity in animal studies

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 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: Inhalation - May cause respiratory

irritation.

Specific target organ toxicity - repeated exposure: No data available



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Aspiration hazard: No data available

Additional Information

RTECS: AK0875000

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 - Pimephales promelas (fathead minnow): 14 mg/l (96 h) NOEC - Pimephales promelas (fathead minnow): 0.16 mg/l (28 d) (OECD Test Guideline 212)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea): 12.6 mg/l (48 h)

(OECD Test Guideline 202)

Toxicity to algae

NOEC - Pseudokirchneriella subcapitata (green algae): 1.58 mg/l (96 h)

(OECD Test Guideline 201)

EC50 - Pseudokirchneriella subcapitata (green algae): 12.7 mg/l (96 h)

(OECD Test Guideline 201)

Persistence and degradability

Biodegradability Result: 82 - 98% - Readily biodegradable

(OECD Test Guideline 301C)

Bioaccumulative potential: No bioaccumulation is to be expected ($\log Pow \le 4$).

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: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US)

UN number: 1301

Class: 3

Packing group: II

Proper shipping name: Vinyl acetate, stabilized



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Reportable Quantity (RQ): 5000 lbs Poison Inhalation Hazard: No

IMDG

UN number: 1301

Class: 3

Packing group: II EMS-No: F-E, S-D

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

The following components are subject to reporting levels established by SARA Title III, Section 302:

Vinyl acetate (CAS-No. 108-05-4)

Revision Date: 2008-11-03

SARA 313 Components

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

Vinyl acetate (CAS-No. 108-05-4)

Revision Date: 2008-11-03

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

Vinyl Acetate (CAS-No. 108-05-4) Revision Date: 2008-11-03

Pennsylvania Right to Know Components

Vinyl Acetate (CAS-No. 108-05-4)

Revision Date 2008-11-03

New Jersey Right to Know Components

Vinyl Acetate (CAS-No. 108-05-4)

Revision Date: 2008-11-03

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.



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HMIS Rating Health: 2* Flammability: 3

Reactivity: 0

NFPA Rating

Health: 2

Flammability: 3 Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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