

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : Vinyl Acetate in Water  
 Product code : AL0-180008

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

No additional information available

#### 1.3. Supplier

Phenova  
 6390 Joyce Dr. Suite 100  
 Golden, CO 80403 - United States  
 T 1-866-942-2978 - F 1-866-283-0269  
[info@phenova.com](mailto:info@phenova.com) - [www.phenova.com](http://www.phenova.com)

#### 1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924  
 ChemTel Assistance (International) +1 813-248-0585

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids H225 Highly flammable liquid and vapour  
 Category 2  
 Carcinogenicity Category 2 H351 Suspected of causing cancer

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
 Hazard statements (GHS US) : H225 - Highly flammable liquid and vapour  
 H351 - Suspected of causing cancer  
 Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 - Keep container tightly closed.  
 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  
 P308+P313 - If exposed or concerned: Get medical advice/attention.  
 P370+P378 - In case of fire: Use media other than water to extinguish.  
 P403+P235 - Store in a well-ventilated place. Keep cool.  
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 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

Not applicable

#### 3.2. Mixtures

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| Name                         | Product identifier | Conc. |
|------------------------------|--------------------|-------|
| vinyl acetate<br>(Component) | (CAS-No.) 108-05-4 | 0.2   |

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

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

### SECTION 5: Fire-fighting measures

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

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

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

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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

|                        |   |
|------------------------|---|
| Storage conditions     | : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. |
| Incompatible products  | : Strong bases. Strong acids.   |
| Incompatible materials | : Sources of ignition. Direct sunlight.   |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| vinyl acetate (108-05-4) |                      |  |
|--------------------------|----------------------|--|
| ACGIH                    | Local name           | Vinyl acetate  |
| ACGIH                    | ACGIH TWA (ppm)      | 10 ppm (Vinyl acetate; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| ACGIH                    | ACGIH STEL (ppm)     | 15 ppm (Vinyl acetate; USA; Short time value; TLV - Adopted Value)                         |
| ACGIH                    | Remark (ACGIH)       | URT, eye, & skin irr; CNS  |
| ACGIH                    | Regulatory reference | ACGIH 2018   |

### 8.2. Appropriate engineering controls

No additional information available

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

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### Respiratory protection:

Wear appropriate mask

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|   |                     |
|---|---------------------|
| Physical state                              | : Liquid            |
|   | : Colorless         |
|   | : characteristic    |
| Odor threshold                              | : No data available |
| pH  | : No data available |
| Melting point                               | : No data available |
| Freezing point                              | : No data available |
| Boiling point                               | : No data available |
| Flash point                                 | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas)                   | : Non flammable.    |
| Vapor pressure                              | : No data available |
| Relative vapor density at 20 °C             | : No data available |
| Relative density                            | : No data available |
| Solubility                                  | : No data available |

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|                           |                     |
|---------------------------|---------------------|
| Log Pow                   | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic      | : No data available |
| Viscosity, dynamic        | : No data available |
| Explosion limits          | : No data available |
| Explosive properties      | : No data available |
| Oxidizing properties      | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| vinyl acetate (108-05-4)   |  |
|----------------------------|--|
| LD50 oral rat              | 2900 mg/kg (Rat; Weight of evidence; 3470 mg/kg bodyweight; Rat)       |
| LD50 dermal rabbit         | 2340 mg/kg (Rabbit; Experimental value; 7440 mg/kg bodyweight; Rabbit) |
| LC50 inhalation rat (mg/l) | > 11.4 mg/l/4h (Rat; Weight of evidence; 15.81 mg/l/4h; Rat)           |
| LC50 inhalation rat (ppm)  | > 3200 ppm/4h (Rat; Weight of evidence; 4490 ppm/4h; Rat)              |
| ATE US (oral)              | 2900 mg/kg body weight   |
| ATE US (dermal)            | 2340 mg/kg body weight   |

|                                   |                                |
|-----------------------------------|--------------------------------|
| Skin corrosion/irritation         | : Not classified               |
| Serious eye damage/irritation     | : Not classified               |
| Respiratory or skin sensitization | : Not classified               |
| Germ cell mutagenicity            | : Not classified               |
| Carcinogenicity                   | : Suspected of causing cancer. |

| vinyl acetate (108-05-4) |                                      |
|--------------------------|--------------------------------------|
| IARC group               | 2B - Possibly carcinogenic to humans |

|   |  |
|---|--|
| Reproductive toxicity                               | : Not classified   |
| STOT-single exposure                                | : Not classified   |
| STOT-repeated exposure                              | : Not classified   |
| Aspiration hazard                                   | : Not classified   |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met.                        |
| Symptoms/effects                                    | : Not expected to present a significant hazard under anticipated conditions of normal use. |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

| vinyl acetate (108-05-4) |  |
|--------------------------|--|
| LC50 fish 1              | 14 - 44 mg/l (96 h, Pimephales promelas)   |
| EC50 Daphnia 1           | 12.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value) |
| LC50 fish 2              | 14 - 44 mg/l (LC50; 96 h)  |

#### 12.2. Persistence and degradability

| Vinyl Acetate in Water        |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| vinyl acetate (108-05-4)      |  |
|-------------------------------|--|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photolysis in the air. |
| ThOD                          | 1.7 g O <sub>2</sub> /g substance  |

#### 12.3. Bioaccumulative potential

| Vinyl Acetate in Water    |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| vinyl acetate (108-05-4)      |  |
|-------------------------------|--|
| BCF fish 1                    | 3.16 (BCF)                                     |
| BCF other aquatic organisms 1 | 2.09 - 2.34 (BCF)                              |
| Log Pow                       | 0.73 (Experimental value)                      |
| Bioaccumulative potential     | Low potential for bioaccumulation (BCF < 500). |

#### 12.4. Mobility in soil

| vinyl acetate (108-05-4) |                        |
|--------------------------|------------------------|
| Surface tension          | 0.024 N/m (20 °C)      |
| Log Koc                  | Koc,24.21; QSAR        |
| Ecology - soil           | Highly mobile in soil. |

#### 12.5. Other adverse effects

| Vinyl Acetate in Water |  |
|------------------------|--|
|                        |  |

| vinyl acetate (108-05-4) |  |
|--------------------------|--|
|                          |  |

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1993 Flammable liquids, n.o.s. (), 3, I  
UN-No.(DOT) : UN1993  
Proper Shipping Name (DOT) : Flammable liquids, n.o.s.  
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
Packing group (DOT) : I - Great Danger

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Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 201  
DOT Packaging Bulk (49 CFR 173.xxx) : 243  
DOT Symbols : G - Identifies PSN requiring a technical name  
DOT Special Provisions (49 CFR 172.102) : T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $97 / 1 + a (tr - tf)$  Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.  
TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 150  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 30 L  
DOT Vessel Stowage Location : E - The material may be stowed "on deck" or "under deck" 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 is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.  
Emergency Response Guide (ERG) Number : 128  
Other information : No supplementary information available.

### Transportation of Dangerous Goods

Not applicable

### Transport by sea

Transport document description (IMDG) : UN 1993 FLAMMABLE LIQUID, N.O.S. (vinyl acetate), 3, I  
UN-No. (IMDG) : 1993  
Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : I - substances presenting high danger  
Limited quantities (IMDG) : 0

### Air transport

Transport document description (IATA) : UN 1993 Flammable liquid, n.o.s. (vinyl acetate), 3, I  
UN-No. (IATA) : 1993  
Proper Shipping Name (IATA) : Flammable liquid, n.o.s.  
Class (IATA) : 3 - Flammable Liquids  
Packing group (IATA) : I - Great Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

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| vinyl acetate (108-05-4)   |         |
|--|---------|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Subject to reporting requirements of United States SARA Section 313 |         |
| Listed on EPA Hazardous Air Pollutant (HAPS)   |         |
| CERCLA RQ  | 5000 lb |
| RQ (Reportable quantity, section 304 of EPA's List of Lists)   | 5000 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ)   | 1000 lb |

### 15.2. International regulations

#### CANADA

| vinyl acetate (108-05-4)                              |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

#### EU-Regulations

No additional information available

#### National regulations

| vinyl acetate (108-05-4)                                     |
|--|
| Listed on IARC (International Agency for Research on Cancer) |
| Listed on EPA Hazardous Air Pollutant (HAPS)                 |

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Revision date : 12/12/2019

Other information : None.

Full text of H-phrases:

|      |                                    |
|------|------------------------------------|
| H225 | Highly flammable liquid and vapour |
| H351 | Suspected of causing cancer        |

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