

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking**

**1.1 Product identifier**

**Product Name** • **Brush-on Adhesive**

**Product Description** • White liquid.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Relevant identified use(s)** • Adhesive

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer** • IKONICS Corporation

4832 Grand Ave.  
Duluth, MN 55807  
United States  
www.ikonics.com  
sds@ikonics.com

**Telephone (General)** • (218) 628-2217

**Telephone (General)** • (800) 328-4261 - Toll free

**1.4 Emergency telephone number**

**Chemtrec** • 1-800-424-9300 - Within USA and Canada

• +1 703-527-3887 - Outside USA and Canada (collect calls accepted)

**Section 2: Hazards Identification**

**EU/EEC**

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

**2.1 Classification of the substance or mixture**

**CLP** • Not classified

**2.2 Label Elements**

**CLP**

**Precautionary statements**

**Prevention** • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

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

**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**2.3 Other Hazards**

**CLP** • No data available

**UN GHS**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## 2.1 Classification of the substance or mixture

UN GHS • Not classified

## 2.2 Label elements

UN GHS

### Precautionary statements

**Prevention** • Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

UN GHS • No data available

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## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

OSHA HCS 2012 • Not classified

## 2.2 Label elements

OSHA HCS 2012

### Precautionary statements

**Prevention** • Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other hazards

OSHA HCS 2012 • No data available

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## Canada

According to: WHMIS

## 2.1 Classification of the substance or mixture

WHMIS • Not classified

## 2.2 Label elements

WHMIS • Not classified

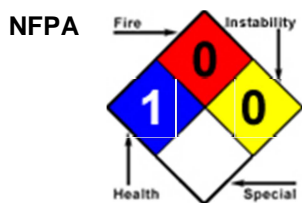
## 2.3 Other hazards

WHMIS • No data available

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## 2.4 Other information



### Key to abbreviations

= See Section 16 for full text of CLP/GHS H and P phrases.

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

### 3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Acetic acid, vinyl ester	CAS:108-05-4 EC Number:203-545-4 EU Index:607-023-00-0 UN:UN1301 EINECS:203-545-4	< 0.1%	Ingestion/Oral-Rat LD50 • 2900 mg/kg Inhalation-Rat LC50 • 11400 mg/m <sup>3</sup> 4 Hour(s) Skin-Rabbit LD50 • 2335 mg/kg	WHMIS: UN GHS: Flam. Liq. 2 EU CLP: EU CLP, Annex VI, Table 3.1: Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H332; STOT SE 3, H335 OSHA HCS 2012:	NDA

### Key to abbreviations

= See Section 16 for full text of CLP/GHS H and P phrases.

See Section 11 for Toxicological Information.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation**
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration and call 911 or emergency medical service.
- Skin**
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

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

- Notes to Physician**
- No data available.
- Antidotes**
- No data available.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** • SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
LARGE FIRE: Water spray, fog or regular foam.

**Unsuitable Extinguishing Media** • No data available.

**Firefighting Procedures** • Fire fighters should wear complete protective clothing including self-contained breathing apparatus.  
Keep unauthorized personnel away.  
Ventilate closed spaces before entering.  
LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • Some of these materials may burn, but none ignite readily.

**Hazardous Combustion Products** • Products of combustion include: carbon oxides (CO<sub>x</sub>).

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.  
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.  
Wear positive pressure self-contained breathing apparatus (SCBA).

## Section 6 - Accidental Release Measures

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

**Personal Precautions** • Do not touch or walk through spilled material. Ventilate enclosed areas.

**Emergency Procedures** • No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

### 6.2 Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

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

**Containment/Clean-up Measures** • Use appropriate Personal Protective Equipment (PPE)  
Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

**Handling** • Use good safety and industrial hygiene practices.

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

**Storage** • Store away from extreme heat. Do not freeze. Keep container closed when not in use.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

**Exposure Limits/Guidelines** • No data available.

Exposure Limits/Guidelines						
	Result	ACGIH	Argentina	Australia	Belgium	Canada Alberta
Acetic acid, vinyl ester (108-05-4)	STELs	15 ppm STEL	15 ppm STEL [CMP-CPT]	20 ppm STEL; 70 mg/m <sup>3</sup> STEL	10 ppm STEL; 35.2 mg/m <sup>3</sup> STEL	15 ppm STEL; 53 mg/m <sup>3</sup> STEL
	TWAs	10 ppm TWA	10 ppm TWA [CMP]	10 ppm TWA; 35 mg/m <sup>3</sup> TWA	5 ppm TWA; 17.6 mg/m <sup>3</sup> TWA	10 ppm TWA; 35 mg/m <sup>3</sup> TWA
Exposure Limits/Guidelines (Con't.)						
	Result	Canada British Columbia	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia
Acetic acid, vinyl ester (108-05-4)	STELs	15 ppm STEL	15 ppm STEL	15 ppm STEL; 53 mg/m <sup>3</sup> STEL	20 ppm STEL; 70 mg/m <sup>3</sup> STEL	15 ppm STEL
	TWAs	10 ppm TWA	10 ppm TWA	10 ppm TWA; 35 mg/m <sup>3</sup> TWA	10 ppm TWA; 35 mg/m <sup>3</sup> TWA	10 ppm TWA
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Nunavut	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon
Acetic acid, vinyl ester (108-05-4)	STELs	20 ppm STEL; 70 mg/m <sup>3</sup> STEL	15 ppm STEL	15 ppm STEV; 53 mg/m <sup>3</sup> STEV	15 ppm STEL	20 ppm STEL; 60 mg/m <sup>3</sup> STEL
	TWAs	10 ppm TWA; 35 mg/m <sup>3</sup> TWA	10 ppm TWA	10 ppm TWAEV; 35 mg/m <sup>3</sup> TWAEV	10 ppm TWA	10 ppm TWA; 30 mg/m <sup>3</sup> TWA
Exposure Limits/Guidelines (Con't.)						
	Result	China	Denmark	Finland	France	Germany TRGS
Acetic acid, vinyl ester (108-05-4)	STELs	15 mg/m <sup>3</sup> STEL	Not established	10 ppm STEL; 35 mg/m <sup>3</sup> STEL	35.2 mg/m <sup>3</sup> STEL [VLCT] (restrictive limit); 10 ppm STEL [VLCT] (restrictive limit)	Not established
	TWAs	10 mg/m <sup>3</sup> TWA	5 ppm TWA; 18 mg/m <sup>3</sup> TWA	5 ppm TWA; 18 mg/m <sup>3</sup> TWA	5 ppm TWA [VME]; 17.6 mg/m <sup>3</sup> TWA [VME]	5 ppm TWA AGW (exposure factor 2); 18 mg/m <sup>3</sup> TWA AGW (exposure factor 2)
Exposure Limits/Guidelines (Con't.)						
	Result	Indonesia	Ireland	Italy	Korea	Mexico
Acetic acid, vinyl ester (108-05-4)	STELs	Not established	10 ppm STEL; 35 mg/m <sup>3</sup> STEL	10 ppm STEL Breve termine; 35.2 mg/m <sup>3</sup> STEL Breve termine	15 ppm STEL (Serial No. 255)	20 ppm STEL [LMPE-CT]; 60 mg/m <sup>3</sup> STEL [LMPE-CT]
	TWAs	10 ppm TWA; 35 mg/m <sup>3</sup> TWA	5 ppm TWA; 18 mg/m <sup>3</sup> TWA	5 ppm TWA; 17.6 mg/m <sup>3</sup> TWA	10 ppm TWA (Serial No. 255)	10 ppm TWA LMPE-PPT; 30 mg/m <sup>3</sup> TWA LMPE-PPT
Exposure Limits/Guidelines (Con't.)						
	Result	Netherlands	New Zealand	NIOSH	Norway	Poland
Acetic acid, vinyl ester (108-05-4)	TWAs	18 mg/m <sup>3</sup> TWA	10 ppm TWA; 35 mg/m <sup>3</sup> TWA	Not established	5 ppm TWA; 17.6 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA [NDS]
	STELs	36 mg/m <sup>3</sup> STEL	20 ppm STEL; 70 mg/m <sup>3</sup> STEL	Not established	Not established	30 mg/m <sup>3</sup> STEL [NDSch]
	Ceilings	Not established	Not established	4 ppm Ceiling (15 min); 15 mg/m <sup>3</sup> Ceiling (15 min)	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Portugal	Russia	Singapore	South Africa	Spain
Acetic acid, vinyl ester (108-05-4)	STELs	10 ppm STEL [VLE-CD] (indicative limit value); 35.2 mg/m <sup>3</sup> STEL [VLE-CD] (indicative limit)	30 mg/m <sup>3</sup> STEL (vapor)	15 ppm STEL; 53 mg/m <sup>3</sup> STEL	20 ppm STEL; 60 mg/m <sup>3</sup> STEL	10 ppm STEL [VLA-EC]; 35.2 mg/m <sup>3</sup> STEL [VLA-EC]

		value)				
	TWAs	5 ppm TWA [VLE-MP] (indicative limit value); 17.6 mg/m3 TWA [VLE-MP] (indicative limit value)	10 mg/m3 TWA (vapor)	10 ppm PEL; 35 mg/m3 PEL	10 ppm TWA; 30 mg/m3 TWA	5 ppm TWA [VLA-ED] (indicative limit value); 17.6 mg/m3 TWA [VLA-ED] (indicative limit value)
Exposure Limits/Guidelines (Con't.)						
	Result	Sweden	Switzerland	Taiwan	Venezuela	
Acetic acid, vinyl ester (108-05-4)	MAKs	Not established	10 ppm TWA [MAK]; 35 mg/m3 TWA [MAK]	Not established	Not established	
	STELs	10 ppm STV; 35 mg/m3 STV	10 ppm STEL [KZW]; 35 mg/m3 STEL [KZW]	Not established	15 ppm STEL [VTRE-LB]	
	TWAs	5 ppm LLV; 18 mg/m3 LLV	Not established	10 ppm TWA; 35 mg/m3 TWA	10 ppm TWA [VTRE-L-8/40]	

## Exposure Control Notations

### Japan

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (Group 2B - Possibly Carcinogenic to Humans)

### Mexico

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (A3 - Confirmed animal carcinogen)

### Switzerland

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (Category C3 carcinogen)

### Norway

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (Carcinogen)

### Portugal

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)

### Singapore

- Acetic acid, vinyl ester (108-05-4): **Odour Threshold - High:** (1.7 mg/m3) | **Odour Threshold - Low:** (0.4 mg/m3)

### South Africa

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (Animal Carcinogen)

### Argentina

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (A3 - Confirmed animal carcinogen with unknown relevance to humans)

### Canada Quebec

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (C3 carcinogen - effect detected in animals)

### Venezuela

- Acetic acid, vinyl ester (108-05-4): **Ceilings:** (Present)

### ACGIH

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)

### Germany DFG

- Acetic acid, vinyl ester (108-05-4): **Carcinogens:** (Category 3A (could be carcinogenic for man))

## Exposure Limits Supplemental

### ACGIH

- Acetic acid, vinyl ester (108-05-4): **TLV Basis - Critical Effects:** (CNS impairment; eye, skin and upper respiratory tract irritation)

## 8.2 Exposure controls

### Engineering Measures/Controls

- Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

### Personal Protective Equipment

#### Pictograms



#### Respiratory

- Not required.

#### Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

#### Hands

- Wear protective gloves - rubber or neoprene.

#### Skin/Body

- Wear protective clothing - apron or other impervious body coverings.

#### General Industrial Hygiene

- Handle in accordance with good industrial hygiene and safety practice.

#### Considerations

Environmental Exposure Controls • No data available

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Viscous liquid.
Color	White	Odor	Isopropyl alcohol.
Taste	Not relevant	Odor Threshold	Not relevant
General Properties			
Boiling Point	100 C(212 F)	Melting Point	No data available
Decomposition Temperature	Not relevant	pH	No data available
Specific Gravity/Relative Density	Not relevant	Density	8.5 lbs/gal
Water Solubility	Miscible	Viscosity	No data available
Explosive Properties	None.	Oxidizing Properties:	None.
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	0.1 %
Volatiles (Wt.)	75 %		
Flammability			
Flash Point	> 220 F(> 121.1111 C)	UEL	No data available
LEL	No data available	Autoignition	Not relevant
Flammability (solid, gas)	Not relevant		
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	No data available
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available
Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Chemical Oxygen Demand	No data available	Persistence	No data available
Degradation	No data available		

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Avoid freezing. Excess heat.

### 10.5 Incompatible materials

- No data available.

### 10.6 Hazardous decomposition products

- No decomposition is expected under normal storage and use conditions. Hazardous decomposition products formed under fire conditions - carbon oxides (COx).

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Acetic acid, vinyl ester (< 0.1%)	108-05-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 2900 mg/kg; Inhalation-Rat LC50 • 11400 mg/m <sup>3</sup> 4 Hour(s); Skin-Rabbit LD50 • 2335 mg/kg

GHS Properties	Classification
Acute toxicity	EU/CLP• OSHA HCS 2012• UN GHS•
Aspiration Hazard	EU/CLP• OSHA HCS 2012• UN GHS•
Carcinogenicity	EU/CLP• OSHA HCS 2012• UN GHS•
Germ Cell Mutagenicity	EU/CLP• OSHA HCS 2012• UN GHS•
Skin corrosion/Irritation	EU/CLP• OSHA HCS 2012• UN GHS•
Skin sensitization	EU/CLP• OSHA HCS 2012• UN GHS•
STOT-RE	EU/CLP• OSHA HCS 2012• UN GHS•
STOT-SE	EU/CLP• OSHA HCS 2012• UN GHS•
Toxicity for Reproduction	EU/CLP• OSHA HCS 2012• UN GHS•
Respiratory sensitization	EU/CLP• OSHA HCS 2012• UN GHS•
Serious eye damage/Irritation	EU/CLP• OSHA HCS 2012• UN GHS•

#### Potential Health Effects

##### Inhalation

###### Acute (Immediate)

- May cause mild irritation.

###### Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

##### Skin

###### Acute (Immediate)

- May cause irritation.

###### Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

##### Eye

###### Acute (Immediate)

- May cause irritation.

###### Chronic (Delayed)

- Repeated and prolonged exposure may be harmful.

##### Ingestion



**Acute (Immediate)**

- May cause gastrointestinal disturbances including diarrhea, nausea, and vomiting.

**Chronic (Delayed)**

- No specific information available.

Carcinogenic Effects		
	CAS	IARC
Acetic acid, vinyl ester	108-05-4	Group 2B-Possible Carcinogen

## Section 12 - Ecological Information

**12.1 Toxicity**

- No data available

**12.2 Persistence and degradability**

- No data available

**12.3 Bioaccumulative potential**

- No data available

**12.4 Mobility in Soil**

- No data available

**12.5 Results of PBT and vPvB assessment**

- No data available

**12.6 Other adverse effects**

## Section 13 - Disposal Considerations

**13.1 Waste treatment methods****Product waste**

- Dispose of content in accordance with local, regional, national, and/or international regulations.

**Packaging waste**

- Dispose of container in accordance with local, regional, national, and/or international regulations.

**13.2 Other Information**

- Dispose of wastes in an approved waste disposal facility.

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	NDA	NDA	NDA	NDA
IMO/IMDG	NDA	NDA	NDA	NDA	NDA
IATA/ICAO	NDA	NDA	NDA	NDA	NDA

**14.6 Special precautions for user**

- None specified.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- Not relevant.

**14.8 Other information**

- DOT • Not regulated.
- IMO/IMDG • Not regulated.
- IATA/ICAO • Not regulated.

## Section 15 - Regulatory Information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • No data available

State Right To Know				
Component	CAS	MA	NJ	PA
Acetic acid, vinyl ester	108-05-4	Yes	Yes	Yes

Inventory						
Component	CAS	Australia AICS	Canada DSL	China	EU EINECS	Japan ENCS
Acetic acid, vinyl ester	108-05-4	Yes	Yes	Yes	Yes	Yes

Inventory (Con't.)					
Component	CAS	Korea KECL	New Zealand	Philippines PICCS	TSCA
Acetic acid, vinyl ester	108-05-4	Yes	Yes	Yes	Yes

### Australia

#### Labor

Australia - High Volume Industrial Chemicals List

•Acetic acid, vinyl ester 108-05-4

Australia - List of Designated Hazardous Substances - Classification

•Acetic acid, vinyl ester 108-05-4 F R11

### Belgium

#### Labor

Belgium - Substances and Preparations - Suspected Carcinogens and Mutagens

•Acetic acid, vinyl ester 108-05-4

### Canada

#### Labor

Canada - WHMIS - Classifications of Substances

•Acetic acid, vinyl ester 108-05-4 B2, D1B, D2A, F

Canada - WHMIS - Ingredient Disclosure List

•Acetic acid, vinyl ester 108-05-4 1 %

#### Environment

Canada - Environmental Emergencies

•Acetic acid, vinyl ester 108-05-4

### China

#### Other

China - Dangerous Goods List

•Acetic acid, vinyl ester 108-05-4

### Europe

#### Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

•Acetic acid, vinyl ester 108-05-4 F; R11 Carc.Cat.3; Xn; R20 Xi; R37

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

•Acetic acid, vinyl ester 108-05-4 F Xn R:11-20-37-40 S:9-16-33-36/37

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

•Acetic acid, vinyl ester 108-05-4 S:9-16-33-36/37

EU - Endocrine Disruptors (COM (2001)262) - Candidate List of Substances

•Acetic acid, vinyl ester 108-05-4 Group III Chemical

### Germany

#### Environment

Germany - TA Luft - Types and Classes

•Acetic acid, vinyl ester 108-05-4 organic Substance: 5.2.5, Class I

Germany - TA Luft - Emission Limits for Organic Substances

•Acetic acid, vinyl ester	108-05-4	0.10 kg/h Mass flow (Class I); 20 mg/m <sup>3</sup> Mass concentration (Class I)
<b>Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes</b>		
•Acetic acid, vinyl ester	108-05-4	ID Number 203, hazard class 2 - hazard to waters
<b>India</b>		
<b>Environment</b>		
<b>India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals</b>		
•Acetic acid, vinyl ester	108-05-4	
<b>Japan</b>		
<b>Labor</b>		
<b>Japan - ISHL Dangerous Substances</b>		
•Acetic acid, vinyl ester	108-05-4	Flammable substance (listed under Substances whose flash points are $\geq -30$ °C and $< 0$ °C)
<b>Japan - ISHL Designated Carcinogens</b>		
•Acetic acid, vinyl ester	108-05-4	>1 %
<b>Japan - ISHL Notifiable Substances</b>		
•Acetic acid, vinyl ester	108-05-4	>0.1 % weight [Table 9, 180]
<b>Environment</b>		
<b>Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances</b>		
•Acetic acid, vinyl ester	108-05-4	134 $\geq 1$ %
<b>Other</b>		
<b>Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances</b>		
•Acetic acid, vinyl ester	108-05-4	Readily biodegradable
<b>Japan - Fire Service Law - Hazardous Materials</b>		
•Acetic acid, vinyl ester	108-05-4	Group 4 - Flammable liquids II (listed under 1st Class petroleum - insoluble)
<b>Mexico</b>		
<b>Environment</b>		
<b>Mexico - Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities</b>		
•Acetic acid, vinyl ester	108-05-4	500 kg/yr TQ
<b>Singapore</b>		
<b>Environment</b>		
<b>Singapore - Petroleum and Flammable Materials - Hazard Classes</b>		
•Acetic acid, vinyl ester	108-05-4	3
<b>Singapore - Petroleum and Flammable Materials - Regulated Products</b>		
•Acetic acid, vinyl ester	108-05-4	SCDVAC1301L2
<b>Taiwan</b>		
<b>Environment</b>		
<b>Taiwan - Toxic Chemical Substances Control Act - Classification and Control Levels</b>		
•Acetic acid, vinyl ester	108-05-4	Class 4 Cutoff: 1 wt%
<b>Thailand</b>		
<b>Other</b>		
<b>Thailand - Hazardous Substances</b>		
•Acetic acid, vinyl ester	108-05-4	Type 2 Hazardous Substance (Department of Industrial Works)
<b>Thailand - Hazardous Substances - Duties and Civil Liabilities</b>		
•Acetic acid, vinyl ester	108-05-4	
<b>United States</b>		
<b>Environment</b>		
<b>U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants</b>		
•Acetic acid, vinyl ester	108-05-4	
<b>U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities</b>		
•Acetic acid, vinyl ester	108-05-4	5000 lb final RQ; 2270 kg final RQ

<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs</b>		
•Acetic acid, vinyl ester	108-05-4	5000 lb EPCRA RQ
<b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs</b>		
•Acetic acid, vinyl ester	108-05-4	1000 lb TPQ
<b>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</b>		
•Acetic acid, vinyl ester	108-05-4	0.1 % de minimis concentration
<b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - Constituents for Detection Monitoring</b>		
•Acetic acid, vinyl ester	108-05-4	
<b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - List for Hazardous Constituents</b>		
•Acetic acid, vinyl ester	108-05-4	
<b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - TSD Facilities Ground Water Monitoring</b>		
•Acetic acid, vinyl ester	108-05-4	

## United States - Pennsylvania

### Labor

<b>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</b>	
•Acetic acid, vinyl ester	108-05-4

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H225 - Highly flammable liquid and vapor
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H351 - Suspected of causing cancer.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### Classification method for mixtures

- Calculation method.

### Last Revision Date

- 18 August 2004

### Preparation Date

- 24 April 2015

### Other Information

- Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.

### Disclaimer/Statement of Liability

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