Safety Data Sheet



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

1.1 Product identifier

Product Name • Spray-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

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

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMISNot classified

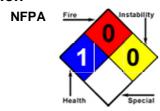
2.2 Label elements

WHMIS • Not classified

2.3 Other hazards

WHMISNo data available

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	< 0.05%	Ingestion/Oral-Rat LD50 • 2900 mg/kg Inhalation-Rat LC50 • 11400 mg/m³ 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 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.

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

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing

• SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Media

LARGE FIRE: Water spray, fog or regular foam.

Unsuitable

• No data available.

Extinguishing Media

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 of combustion include: carbon oxides (COx).

Products

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

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	s/Guidelines		
	Result	ACGIH	Argentina	Australia	Belgium	Canada Alberta
Acetic acid, vinyl	STELs	15 ppm STEL	15 ppm STEL [CMP- CPT]	20 ppm STEL; 70 mg/m3 STEL	10 ppm STEL; 35.2 mg/m3 STEL	15 ppm STEL; 53 mg/m3 STEL
ester (108-05-4)	TWAs	10 ppm TWA	10 ppm TWA [CMP]	10 ppm TWA; 35 mg/m3 TWA	5 ppm TWA; 17.6 mg/m3 TWA	10 ppm TWA; 35 mg/m3 TWA
		Ex	posure Limits/Gu	idelines (Con't.)		
	Result	Canada British Columbia	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia
Acetic acid, vinyl	STELs	15 ppm STEL	15 ppm STEL	15 ppm STEL; 53 mg/m3 STEL	20 ppm STEL; 70 mg/m3 STEL	15 ppm STEL
ester (108-05-4)	TWAs	10 ppm TWA	10 ppm TWA	10 ppm TWA; 35 mg/m3 TWA	10 ppm TWA; 35 mg/m3 TWA	10 ppm TWA
		Ex	posure Limits/Gu	idelines (Con't.)		
	Result	Canada Nunavut	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon
Acetic acid, vinyl	STELs	20 ppm STEL; 70 mg/m3 STEL	15 ppm STEL	15 ppm STEV; 53 mg/m3 STEV	15 ppm STEL	20 ppm STEL; 60 mg/m3 STEL
ester (108-05-4)	TWAs	10 ppm TWA; 35 mg/m3 TWA	10 ppm TWA	10 ppm TWAEV; 35 mg/m3 TWAEV	10 ppm TWA	10 ppm TWA; 30 mg/m3 TWA
		Ex	posure Limits/Gu	idelines (Con't.)		
	Result	China	Denmark	Finland	France	Germany TRGS
Acetic acid, vinyl	STELs	15 mg/m3 STEL	Not established	10 ppm STEL; 35 mg/m3 STEL	35.2 mg/m3 STEL [VLCT] (restrictive limit); 10 ppm STEL [VLCT] (restrictive limit)	Not established
ester (108-05-4)	TWAs	10 mg/m3 TWA	5 ppm TWA; 18 mg/m3 TWA	5 ppm TWA; 18 mg/m3 TWA	5 ppm TWA [VME]; 17.6 mg/m3 TWA [VME]	5 ppm TWA AGW (exposure factor 2); 18 mg/m3 TWA AGW (exposure factor 2)
		Ex	posure Limits/Gu	idelines (Con't.)		
	Result	Indonesia	Ireland	Italy	Korea	Mexico
Acetic acid, vinyl ester	STELs	Not established	10 ppm STEL; 35 mg/m3 STEL	10 ppm STEL Breve termine; 35.2 mg/m3 STEL Breve termine	15 ppm STEL (Serial No. 255)	20 ppm STEL [LMPE-CT]; 60 mg/m3 STEL [LMPE-CT]
(108-05-4)	TWAs	10 ppm TWA; 35 mg/m3 TWA	5 ppm TWA; 18 mg/m3 TWA	5 ppm TWA; 17.6 mg/m3 TWA	10 ppm TWA (Serial No. 255)	10 ppm TWA LMPE- PPT; 30 mg/m3 TWA LMPE-PPT
		Ex	posure Limits/Gu	idelines (Con't.)		
	Result		New Zealand	NIOSH	Norway	Poland
	TWAs	18 mg/m3 TWA	10 ppm TWA; 35 mg/m3 TWA	Not established	5 ppm TWA; 17.6 mg/m3 TWA	10 mg/m3 TWA [NDS]
Acetic acid, vinyl ester	STELs	36 mg/m3 STEL	20 ppm STEL; 70 mg/m3 STEL	Not established	Not established	30 mg/m3 STEL [NDSCh]
(108-05-4)	Ceilings	Not established	Not established	4 ppm Ceiling (15 min); 15 mg/m3 Ceiling (15 min)	Not established	Not established
		Ex	posure Limits/Gu	idelines (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/m3 STEL [VLE-CD] (indicative limit	30 mg/m3 STEL (vapor)	15 ppm STEL; 53 mg/m3 STEL	20 ppm STEL; 60 mg/m3 STEL	10 ppm STEL [VLA- EC]; 35.2 mg/m3 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				
	MAKs	Not established	10 ppm TWA [MAK]; 35 mg/m3 TWA [MAK]	Not established	Not established				
Acetic acid, vinyl ester (108-05-4)	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

Eye/Face

Hands

Skin/Body

General Industrial Hygiene Considerations

• Not required.

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

• Wear protective gloves - rubber or neoprene.

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

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

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	рН	No data available
Specific Gravity/Relative Density	Not relevant	Density	8.4 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.)	6 %
Volatiles (Wt.)	78.5 %		
Flammability			
Flash Point	> 250 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 (<	108-05-	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2900 mg/kg; Inhalation-Rat LC50 • 11400 mg/m³ 4			
0.05%)	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.
- 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

• Not relevant.

MARPOL 73/78 and the IBC Code

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	S Australia AICS		Canada DSL China		EU EINECS		Japan ENCS			
Acetic acid, vinyl ester	108	3-05-4	Yes		Yes		Yes		Yes Yes		Ye	es
					Inve	entory (Co	n't.)					
Component		CAS	3	Korea K	CL	New	Zealand	Phili	ppines 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 F; R11 Carc.Cat.3; Xn; R20

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 Disrupters (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 Germany - TA Luft - Emission Limits for Organic Substances	108-05-4	organic Substance: 5.2.5, Class I
•Acetic acid, vinyl ester	108-05-4	0.10 kg/h Mass flow (Class I); 20 mg/m3 Mass concentration (Class I)
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes •Acetic acid, vinyl ester	108-05-4	ID Number 203, hazard class 2 - hazard to waters
India		
Environment India - Hazardous Chemical Rules - List of Hazardous and Toxic Chemicals •Acetic acid, vinyl ester	108-05-4	
Japan		
Labor		
Acetic acid, vinyl ester Acetic acid, Vinyl ester	108-05-4	Flammable substance (listed under Substances whose flash points are >=-30 °C and <0 °C)
Japan - ISHL Designated Carcinogens •Acetic acid, vinyl ester	108-05-4	>1 %
Japan - ISHL Notifiable Substances	400.05.4	0.4.07
•Acetic acid, vinyl ester	108-05-4	>0.1 % weight [Table 9, 180]
Environment Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances •Acetic acid, vinyl ester	108-05-4	134 >=1 %
Other Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substance Control Law (CSCL) - Examined Existence Control Law (CSCL) - Examin	stances 108-05-4	Readily biodegradable
•Acetic acid, vinyl ester	108-05-4	Group 4 - Flammable liquids II (listed under 1st Class petroleums - insoluble)
Mexico		
Environment Mexico - Pollutant Release and Transfer Register - Reporting Emissions - Threshold •Acetic acid, vinyl ester	Quantities 108-05-4	500 kg/yr TQ
Singapore		
Environment Singapore - Petroleum and Flammable Materials - Hazard Classes *Acetic acid, vinyl ester Singapore - Petroleum and Flammable Materials - Regulated Products *Acetic acid, vinyl ester	108-05-4 108-05-4	3 SCDVAC1301L2
Taiwan	100-03-4	3CDVAC1301L2
Environment Taiwan - Toxic Chemical Substances Control Act - Classification and Control Levels •Acetic acid, vinyl ester	108-05-4	Class 4 Cutoff: 1 wt%
Thailand		
Other Thailand - Hazardous Substances		
Acetic acid, vinyl ester	108-05-4	Type 2 Hazardous Substance (Department of Industrial Works)
Thailand - Hazardous Substances - Duties and Civil Liabilities •Acetic acid, vinyl ester	108-05-4	
United States		
Environment U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants •Acetic acid, vinyl ester	108-05-4	
ricone della, riny, eeter	100 00 4	

U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
Acetic acid, vinyl ester	108-05-4	5000 lb final RQ; 2270 kg final RQ
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Acetic acid, vinyl ester	108-05-4	5000 lb EPCRA RQ
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Acetic acid, vinyl ester	108-05-4	1000 lb TPQ
U.S CERCLA/SARA - Section 313 - Emission Reporting		
•Acetic acid, vinyl ester	108-05-4	0.1 % de minimis concentration
U.S RCRA (Resource Conservation & Recovery Act) - Constituents for Detection N	l lonitoring	
Acetic acid, vinyl ester	108-05-4	
U.S RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constitue	ents	
Acetic acid, vinyl ester	108-05-4	
U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water	•	
Acetic acid, vinyl ester	108-05-4	

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

·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 Preparation Date

• 17 August 2004 • 24 April 2015

Other Information

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

Liability

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