

# SAFETY DATA SHEET

Creation Date 21-Sep-2009 Revision Date 18-Dec-2025 Revision Number 9

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

1. Identification

Product Name Vinyl acetate, stabilized

Cat No.: AC140840000; AC140840010; AC140840025; AC140840100;

AC140840250

CAS No 108-05-4

Synonyms Ethenyl ethanoate; Vinyl A monomer; Ethenyl acetate

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

# Details of the supplier of the safety data sheet

Company

Fisher Scientific Company Acros Organics
One Reagent Lane One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

# **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

Flammable liquids

Acute Inhalation Toxicity - Vapors

Carcinogenicity

Category 2

Category 2

Specific target organ toxicity (single exposure)

Category 3

Target Organs - Respiratory system.

Label Elements

Signal Word

Danger

**Hazard Statements** 

Highly flammable liquid and vapor Harmful if inhaled May cause respiratory irritation Suspected of causing cancer



### **Precautionary Statements**

### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use only outdoors or in a well-ventilated area

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Avoid breathing dust/fume/gas/mist/vapors/spray

Keep container tightly closed

Ground and bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Keep cool

Wear protective gloves/protective clothing/eye protection/face protection

Take action to prevent static discharges

Use non-sparking tools

# Response

IF exposed or concerned: Get medical attention/advice

### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

#### Fire

In case of fire: Use CO2, dry chemical, or foam to extinguish

### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

None identified

# Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

#### Other hazards

Contains a known or suspected endocrine disruptor.

WARNING. Cancer - https://www.p65warnings.ca.gov/.

# 3. Composition/information on Ingredients

Component	CAS No	Weight %
Vinyl acetate	108-05-4	> 99
Hydroquinone	123-31-9	< 0.01

# 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if Inhalation

symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and

effects

Notes to Physician

Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

# 5. Fire-fighting measures

**Suitable Extinguishing Media** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water mist may be used to cool closed containers.

Water mist may be used to cool closed containers.

**Unsuitable Extinguishing Media** No information available

**Flash Point** -8 °C / 17.6 °F

Method -No information available

**Autoignition Temperature** 385 °C / 725 °F

**Explosion Limits** 

14.0% Upper 2.6% Lower

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2).

# Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health **Flammability** Instability Physical hazards 2 N/A 3

### Accidental release measures

Ensure adequate ventilation. Use personal protective equipment as required. Remove all **Personal Precautions** 

sources of ignition. Take precautionary measures against static discharges.

**Environmental Precautions** Should not be released into the environment. See Section 12 for additional Ecological

Information. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Up

# 7. Handling and Storage

Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage.

Keep in a dry place. Keep container tightly closed. Keep away from heat, sparks and flame. Protect from direct sunlight. Refrigerator/flammables. May form explosive peroxides on prolonged storage. Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials. Acids. Bases. oxygen. Peroxides. Acid anhydrides. Metals.

# 8. Exposure controls / personal protection

### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Vinyl acetate	TWA: 10 ppm	(Vacated) TWA: 10 ppm	Ceiling: 4 ppm	TWA: 10 ppm
	STEL: 15 ppm	(Vacated) TWA: 30 mg/m <sup>3</sup>	Ceiling: 15 mg/m <sup>3</sup>	STEL: 15 ppm
		(Vacated) STEL: 20 ppm		
		(Vacated) STEL: 60 mg/m <sup>3</sup>		
Hydroquinone	TWA: 1 mg/m <sup>3</sup>	(Vacated) TWA: 2 mg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
		TWA: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	_

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use explosion-proof electrical/ventilating/lighting equipment. Ensure adequate ventilation,

especially in confined areas. Ensure that eyewash stations and safety showers are close to

the workstation location.

### **Personal Protective Equipment**

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Recommended Filter type:** Organic gases and vapours filter. Type A. Brown. conforming to EN14387.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Appearance

Physical State Liquid
Color Clear
Odor sweet

Odor Threshold No information available

Revision Date 18-Dec-2025 Vinyl acetate, stabilized

**Property** Values Remarks Method

-93 °C / -135.4 °F **Melting Point/Range Softening Point** No data available

**Boiling Point/Range** 

72 - 73 °C / 161.6 - 163.4 °F

-8 °C / 17.6 °F Flash Point Method - No information available

Flammability (liquid) Highly flammable On basis of test data Flammability (solid,gas) Not applicable Liquid

**Explosion Limits** Lower 2.6 Upper 14

385 °C / 725 °F **Autoignition Temperature Decomposition Temperature** No data available

Hq

Viscosity No data available Water Solubility 23 g/L (20°C)

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Vinvl acetate 0.73 Hydroquinone 0.59

**Vapor Pressure** No data available

**Density / Specific Gravity** 0.930

**Bulk Density** Not applicable Liquid (Air = 1.0)**Vapor Density** No data available

Not applicable (liquid) **Particle characteristics** 

Other Information

C4 H6 O2 **Molecular Formula Molecular Weight** 86.09

**Explosive Properties** Vapors may form explosive mixtures with air Self-accelerating polymerisation : No polymerization observed up to 65 °C

temperature (SAPT)

# 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability May form explosive peroxides. Stable under normal conditions. Light sensitive.

Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Exposure **Conditions to Avoid** 

to light. Incompatible products.

**Incompatible Materials** Acids, Bases, oxygen, Peroxides, Acid anhydrides, Metals

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous polymerization may occur. **Hazardous Polymerization** 

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

Information on expected route of exposure

Inhalation Not an expected route of exposure. Ingestion May be harmful if swallowed.

Avoid contact with eyes. Lachrymator (substance which increases the flow of tears). **Eyes** 

Avoid contact with skin. Skin

Toxicology data for the components

Revision Date 18-Dec-2025

Vinyl acetate, stabilized

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Vinyl acetate	acetate LD50 = 2900 mg/kg ( Rat )		LC50 = 3680 ppm (Rat) 4 h		
Hydroquinone	LD50 = 367 mg/kg (Rat)	LD50 = 74800 mg/kg ( Rabbit )	-		

**Toxicologically Synergistic** 

**Products** 

No information available

(b) skin corrosion/irritation;

No data available

(c) serious eye damage/irritation;

No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity;

No data available

Not mutagenic in AMES Test

(f) carcinogenicity;

Hygienists)

Category 2

Possible cancer hazard. May cause cancer based on animal data The table below indicates

whether each agency has listed any ingredient as a carcinogen

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Vinyl acetate	108-05-4	Group 2B	Not listed	A3	X	A3
Hydroquinone	123-31-9	Not listed	Not listed	A3	Not listed	A3

IARC (International Agency for Research on Cancer)

ACGIH: (American Conference of Governmental Industrial

Mexico - Occupational Exposure Limits - Carcinogens

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

A2 - Suspected Human Carcinogen

A3 - Confirmed Animal Carcinogen

A1 - Confirmed Human Carcinogen

A4 - Not Classifiable as a Human Carcinogen A5 - Not Suspected as a Human Carcinogen

(g) reproductive toxicity;

No data available

(h) STOT-single exposure; Category 3

Results / Target organs Respiratory system.

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

**delayed** tiredness, nausea and vomiting.

Other Adverse Effects The toxicological properties have not been fully investigated.

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health

Contains a substance on the National Authorities Endocrine Disruptor Lists

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information	
Vinyl acetate	Group III Chemical	Not applicable	Not applicable	

# 12. Ecological information

# **Ecotoxicity**

This product contains the following substance(s) which are hazardous for the environment. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Vinyl acetate	acetate		EC50 = 2080 mg/L 5 min	Not listed
Hydroquinone	EC50: = 0.335 mg/L, 72h (Pseudokirchneriella subcapitata)	LC50: 0.1 - 0.18 mg/L, 96h static (Pimephales promelas) LC50: = 0.17 mg/L, 96h (Brachydanio rerio) LC50: = 0.044 mg/L, 96h flow-through (Pimephales promelas) LC50: = 0.044 mg/L, 96h flow-through (Oncorhynchus mykiss)	EC50 = 0.038 mg/L 15 min EC50 = 0.0382 mg/L 30 min EC50 = 0.042 mg/L 5 min EC50 = 23.75 mg/L 60 min	EC50: = 0.29 mg/L, 48h (Daphnia magna)

Persistence and Degradability

Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** 

No information available.

**Mobility** 

Will likely be mobile in the environment due to its volatility.

Component	log Pow
Vinyl acetate	0.73
Hydroquinone	0.59

# 13. Disposal considerations

**Waste Disposal Methods** 

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.

# 14. Transport information

DOT

**UN-No** UN1301

Proper Shipping Name VINYL ACETATE, STABILIZED

Hazard Class 3
Packing Group ||

TDG

UN-No UN1301

Proper Shipping Name VINYL ACETATE, STABILIZED

Hazard Class 3
Packing Group ||

<u>IATA</u>

UN-No UN1301

Proper Shipping Name VINYL ACETATE, STABILIZED

Hazard Class 3 Packing Group II

IMDG/IMO

UN-No UN1301

Proper Shipping Name VINYL ACETATE, STABILIZED

Hazard Class 3 Packing Group II

# 15. Regulatory Information

### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Vinyl acetate	108-05-4	X	ACTIVE	-
Hydroquinone	123-31-9	Χ	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Vinyl acetate	108-05-4	Χ	-	203-545-4	Χ	Χ	Χ	Χ	Χ	KE-35324
Hydroquinone	123-31-9	Х	1	204-617-8	Х	Х	Χ	Х	Х	KE-35112

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

	Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Γ	Vinyl acetate	108-05-4	> 99	0.1 %	-
Γ	Hydroguinone	123-31-9	< 0.01	1.0 %	-

# SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **CWA (Clean Water Act)**

<sup>&#</sup>x27;-' - Not Listed

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Vinyl acetate	X	5000 lb	-	-

### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Vinyl acetate	X		-
Hydroquinone	X		-

**OSHA** - Occupational Safety and

Health Administration

Not applicable

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Vinyl acetate	5000 lb	5000 lb	5000 lb 2270 kg
Hydroquinone	100 lb	100 lb	100 lb 45.4 kg

### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Vinyl acetate	108-05-4	Carcinogen	-	Carcinogen

# U.S. State Right-to-Know

# Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Vinyl acetate	X	X	X	X	X
Hydroquinone	X	X	X	X	X

# **U.S. Department of Transportation**

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### U.S. Department of Homeland

Security

This product contains the following DHS chemicals:

**Legend** - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard
Vinyl acetate	Release STQs - 10000lb

# Other International Regulations

Mexico - Grade

No information available

# Authorisation/Restrictions according to EU REACH

	Component		REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous	REACH Regulation (EC 1907/2006) article 59 - Candidate List of
1					Substances of Very High
1					Concern (SVHC)
Ī	Vinyl acetate	108-05-4	-	Use restricted. See entry	-
1	-			75.	

			(see link for restriction details)	
Hydroquinone	123-31-9	-	Use restricted. See entry	-
			75.	
			(see link for restriction	
			details)	

#### **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Vinyl acetate	108-05-4	Listed	Not applicable	Not applicable	Not applicable
Hydroquinone	123-31-9	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Qualifying Quantities for Major Accident	(	` ,	(
		Notification	Requirements		
Vinyl acetate	108-05-4	Not applicable	Not applicable	Not applicable	Not applicable
Hydroquinone	123-31-9	Not applicable	Not applicable	Not applicable	Annex I - Y39

16. Other Information	
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Prepared By Product stewardship (Regulatory Affairs)

Thermo Fisher Scientific

email-begel.sdsdesk@thermofisher.com

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Revision Summary Updated to the U.S. Department of Labor's Occupational Safety and Health Administration

(OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200,

2024), May 20, 2024, effective July 19, 2024.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**