

SAFETY DATA SHEET

Creation Date 10-Jun-2008 Revision Date 25-Apr-2019 Revision Number 4

1. Identification

Product Name Allyl alcohol

Cat No.: AC102860000; AC102860010; AC102862500; AC102860025

CAS-No 107-18-6 **Synonyms** 2-Propen-1-ol

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 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-ACROS-01 / **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 by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Acute oral toxicity

Category 2

Acute dermal toxicity

Category 2

Acute Inhalation Toxicity - Vapors

Skin Corrosion/irritation

Category 2

Serious Eye Damage/Eye Irritation

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

Toxic if swallowed

Allyl alcohol

Fatal in contact with skin Causes skin irritation Causes serious eye irritation Fatal if inhaled May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not get in eyes, on skin, or on clothing

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

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

Immediately call a POISON CENTER or doctor/physician

Wash contaminated clothing before reuse

If skin irritation occurs: Get medical advice/attention

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

Eyes

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

Indestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

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)

Very toxic to aquatic life

Harmful to aquatic life with long lasting effects

Lachrymator (substance which increases the flow of tears)

Allyl alcohol

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Allyl alcohol	107-18-6	>95

4. First-aid measures

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Immediate medical attention is required.

Inhalation Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial

respiration. Immediate medical attention is required.

Ingestion Call a physician immediately. Clean mouth with water.

Most important symptoms and

effects

Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon

Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam. Cool closed containers

exposed to fire with water spray.

Unsuitable Extinguishing Media No information available

Flash Point 21 °C / 69.8 °F

Method - No information available

Autoignition Temperature 375 °C / 707 °F

Explosion Limits

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Do not allow run-off from fire fighting to enter drains or water courses.

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
4 3 0 N/A

6. Accidental release measures

Personal Precautions
Environmental Precautions

Remove all sources of ignition. Take precautionary measures against static discharges. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities

Allyl alcohol

should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not let this chemical enter the environment.

7. Handling and storage

Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Use only in Handling

area provided with appropriate exhaust ventilation. Use explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment

must be grounded. Take precautionary measures against static discharges.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away Storage

from heat and sources of ignition. Flammables area. Keep under nitrogen. Keep container

tightly closed in a dry and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Allyl alcohol	TWA: 0.5 ppm	(Vacated) TWA: 2 ppm	IDLH: 20 ppm	TWA: 2 ppm
	Skin	(Vacated) TWA: 5 mg/m ³	TWA: 2 ppm	TWA: 5 mg/m ³
		(Vacated) STEL: 4 ppm	TWA: 5 mg/m ³	STEL: 4 ppm
		(Vacated) STEL: 10 mg/m ³	STEL: 4 ppm	STEL: 10 mg/m ³
		Skin	STEL: 10 mg/m ³	
		TWA: 2 ppm		
		TWA: 5 mg/m ³		1

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location. Use explosion-proof

electrical/ventilating/lighting/equipment.

Personal Protective Equipment

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

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

EN166.

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

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

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.

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

9. Physical and chemical properties

Physical State Liquid Colorless **Appearance**

Odor No information available

Allyl alcohol

Odor ThresholdNo information availablepHNo information availableMelting Point/Range-129 °C / -200.2 °F

Boiling Point/Range 96 - 98 °C / 204.8 - 208.4 °F

Flash Point 21 °C / 69.8 °F
Evaporation Rate No information available
Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper
LowerNo data available
No data availableVapor Pressure17.3 mmHg @ 20 °CVapor DensityNo information available

Specific Gravity 0.850

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature

Decomposition Temperature

Viscosity

No information available

375 °C / 707 °F

No information available

No information available

Molecular Formula C3 H6 O Molecular Weight 58.08

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Incompatible Materials Acids, Strong oxidizing agents, Metals

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

Hazardous Polymerization Polymerization can occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Allyl alcohol	LD50 = 64 mg/kg (Rat)	LD50 = 45 mg/kg (Rabbit)	LC50 = 0.391 mg/L (Rat) 4 h		

Toxicologically Synergistic

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

 Irritation
 No information available

 Sensitization
 No information available

CarcinogenicityThe table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Allyl alcohol	107-18-6	Not listed				

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects No information available.

Allyl alcohol

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

No information available Aspiration hazard

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

tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

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

12. Ecological information

Ecotoxicity

delayed

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Allyl alcohol	Not listed	0.32 mg/L LC50 96 h 0.28 -	EC50 = 216 mg/L 30 min	0.25 mg/L EC50 = 96 h
		0.37 mg/L LC50 96 h	EC50 = 342 mg/L 15 min	-
			EC50 = 608 mg/L 5 min	

Persistence and Degradability Persistence is unlikely

Bioaccumulation/ Accumulation No information available.

Mobility . Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Allyl alcohol	0.17

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 UN1098

Proper Shipping Name ALLYL ALCOHOL

Hazard Class 6.1 **Subsidiary Hazard Class** 3 **Packing Group**

TDG

UN1098 **UN-No**

ALLYL ALCOHOL **Proper Shipping Name**

Hazard Class 6.1 **Subsidiary Hazard Class** 3 **Packing Group**

IATA

UN1098 **UN-No**

Proper Shipping Name ALLYL ALCOHOL, FORBIDDEN FOR IATA TRANSPORT

Hazard Class 6.1 **Subsidiary Hazard Class** 3

IMDG/IMO

UN1098 **UN-No**

Allyl alcohol

Proper Shipping Name

ALLYL ALCOHOL

Hazard Class Subsidiary Hazard Class Packing Group 6.1 3 I

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags	
Allyl alcohol	107-18-6	X	ACTIVE	-	

Legend:

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

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Allyl alcohol	107-18-6	Х	-	203-470-7	X	X	Х	Х	X

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Allyl alcohol	107-18-6	>95	1.0

SARA 311/312 Hazard Categories

See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Allyl alcohol	X	100 lb	-	-

Clean Air Act

CERCLA

Not applicable

OSHA - Occupational Safety and

Not applicable

Health Administration

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)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Allyl alcohol	100 lb	100 lb

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

	Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ī	Allyl alcohol	X	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ):

Ν

Allyl alcohol

DOT Marine Pollutant DOT Severe Marine Pollutant Ν

U.S. Department of Homeland

This product contains the following DHS chemicals: Security

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

Component	DHS Chemical Facility Anti-Terrorism Standard
Allyl alcohol	Release STQs - 15000lb

Other International Regulations

Mexico - Grade No information available

	16. Other information
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Regulatory Affairs **Prepared By**

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Creation Date 10-Jun-2008 **Revision Date** 25-Apr-2019 25-Apr-2019 **Print Date**

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

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