

+1.703.527.3887 (INT)

SAFETY DATA SHEET

Sorbic acid

This SDS is valid for all grades and catalog #s

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: High Purity Chemicals

Synonyms: 1,3-Pentadiene-1-carboxylic acid Hexa-2,4-dienoic acid

(E,E)-2,4-Hexadienoic acid 2-Propenylacrylic acid

Other means of identification: CAS No.110-44-1

EINECS No. 203-768-7

Recommended use of the chemical and restrictions on use:

Supplier Details:

Pharmco Products, Inc.

58 Vale Road, Brookfield, CT 06804, USA.

Tel: 203.740.3471 Fax: 203.740.3481

CCN17213

Emergency Contact: CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

2. HAZARDS IDENTIFICATION

OSHA Hazards:

Irritant

Target Organs:

Blood, Cardiovascular system, Central nervous system, Kidney, Liver, Lungs

NFPA

SDS: 482 Revision Date: 06.18.15 Revision Number: 3.0 Initials: MW

Page 1 of 8



on: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)

+1.703.527.3887 (INT)

GHS label elements, including precautionary statements



Signal Word:

WARNING!

Hazard statement(s)

H319 Causes serious eye irritation. H303 May be harmful if swallowed.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H401 Toxic to aquatic life.

Precautionary statement(s)

P261 Avoid breathing dust/fumes/gas/mist/vapors.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Seek

medical attention.

GHS Classification(s)

Skin irritation (Category 2)
Acute Toxicity, Oral (Category 5)
Eye irritation (Category 2A)
Specific terrest ergen toxicity, sin

Specific target organ toxicity - single exposure (Category 3)

Other hazards which do not result in classification:

Potential Health Effects:

Organ	Description	
Eyes	Causes eye irritation.	
Ingestion	Harmful if swallowed.	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.	
Skin	Harmful if absorbed through skin. Causes skin irritation.	

3. COMPOSITION AND INFORMATION ON INGREDIENTS



+1.703.527.3887 (INT)

Chemical identity: Sorbic acid

Common name / Synonym: 1,3-Pentadiene-1-carboxylic acid Hexa-2,4-dienoic acid

(E,E)-2,4-Hexadienoic acid 2-Propenylacrylic acid

 CAS number:
 110-44-1

 EINECS number:
 203-768-7

 ICSC number:
 1284

RTECS #: WG2100000

% Weight	Material	CAS
100	Sorbic acid	110-44-1

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Immediately flush affected area with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse. Contact a doctor. If irritation persists, get medical attention.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep



+1.703.527.3887 (INT)

unopened containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid dust formation. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Without creating dust, sweep up and place material in a convenient waste disposal container. Keep container closed.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get on skin or in eyes. Avoid formation of dust and aerosols. Provide proper exhaust ventilation system in areas where dust forms.

Conditions for safe storage, including any incompatibilites:

Container must be sealed tightly and kept in a dry, well-ventilated space.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

Component	Source	Type	Value	Note
Sorbic acid	1		No Exposure Limit	

Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Individual protection measures, such as personal protective equipment:

Respiratory protection:

Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SDS: 482 Revision Date: 06.18.15 Revision Number: 3.0 Initials: MW

Page 4 of 8



+1.703.527.3887 (INT)

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Crystalline solid. White
pH	3.3
Freezing point	132 - 135 °C (270 - 275 °F)
Initial boiling point and boiling range	170 °C (338 °F)
Flash point	127 °C (261 °F) - closed cup
Flammability (solid, gas)	Not flammable or combustible.
Vapor pressure	0.01 hPa (0.01 mmHg) at 20 °C (68 °F)
Relative Density	1.200 g/cm3 at 20 °C (68 °F)
Partition coefficient n-octanol/water(ies)	log Pow: 1.858
Formula (SORBIC ACID)	C6H8O2
Molecular Formula (SORBIC ACID)	112.13 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid (e.g., static discharge, shock or vibration)	Light.
Incompatible materials	Bases, Oxidizing agents, Reducing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions Carbon oxides



+1.703.527.3887 (INT)

11. TOXICOLOGICAL INFORMATION

• Sorbic acid 110-44-1

Product Summary:

No data available for the teratogenic, mutagenic, or reproductive toxicity effects of this product. Lab tests have shown genotoxicity in model organisms.

Acute Toxicity:

LD50 (Dermal)	Rabbit	> 1000 mg/kg	

Irritation:

Eyes

Rabbit - moderate eye irritation - 24 hours

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Organ	Description	
Eyes	Causes eye irritation.	
Ingestion	Harmful if swallowed.	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.	
Skin	Harmful if absorbed through skin. Causes skin irritation.	

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Recycle to process, if possible. Consult your local or regional authorities.

SDS: 482 Revision Date: 06.18.15 Revision Number: 3.0 Initials: MW

Page 6 of 8



+1.703.527.3887 (INT)

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number Not a dangerous good.

IMDG

UN-Number: Not a dangerous good.

Marine pollutant: No

IATA

UN-Number: Not a dangerous good.

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:

OSHA Hazards

Irritant

All ingredients are on the following inventories or are exempted from listing

Country	Notification	
Australia	AICS	
Canada	DSL	
China	IECS	
European Union	EINECS	
Japan	ENCS/ISHL	
Korea	ECL	
New Zealand	NZIoC	
Philippines	PICCS	
United States of America	TSCA	

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

CERCLA

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Pennsylvania Right To Know Components



+1.703.527.3887 (INT)

Hexa-2,4-dienoic acid CAS-No. 110-44-1

New Jersey Right To Know Components

Hexa-2,4-dienoic acid CAS-No. 110-44-1

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Disclaimer

PHARMCO-AAPER believes that the information on this SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, PHARMCO-AAPER does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable. Information is correct to the best of our knowledge at the date of the SDS publication.