

Sorbic Acid

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
March 26, 2012 / Rules and Regulation

Revision Date: 18-Jun-2025
Supersedes: 12-Nov-2023


1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Sorbic Acid
Synonyms: No data available
INCI Name: Sorbic Acid
CAS Number: 110-44-1
Formula: C₆H₈O₂
Product Form: Solid
Product Use: Cosmetic use

Distributor: MakingCosmetics Inc.
Address: 10800 231st Way NE
Redmond, WA 98053 (USA)
Phone / Fax: 425-292-9502 / 425-292-9601
Web: www.makingcosmetics.com

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Skin irritation: Category 2
Eye irritation: Category 2B
Specific target organ toxicity - single exposure: Category 3 (Respiratory system)
GHS Signal Word: **WARNING!**
GHS Hazard Pictograms: 

GHS Hazard Statements: H315 + H320: Causes skin and eye irritation.
H335: May cause respiratory irritation.
GHS Precautionary Statements: (Prevention) P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves.
(Response) P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362: Take off contaminated clothing and wash before reuse.
(Storage) P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
(Disposal) P501 Dispose of contents/ container to an approved waste disposal plant.
Potential Health Hazards: Eyes: Causes eye irritation.
Inhalation: May be an irritant.
Skin: Causes skin irritation.
Ingestion: May cause nausea, vomiting, and diarrhea.

NFPA Ratings (704):

Health	1	Slight
Flammability	0	Minimal
Reactivity	0	Minimal
Specific Hazard	N/A	

HMIS III Ratings:

Health	1	Slight
Flammability	0	Minimal
Physical Hazards	0	Minimal

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
-----------	---------	----------	------------------

Sorbic Acid	110-44-1	100%	Not Available
-------------	----------	------	---------------

4 FIRST AID MEASURES

Eyes: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Inhalation: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

Skin: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

Ingestion: Do Not Induce Vomiting. Never give anything by mouth to an unconscious person. Keep respiratory tract clear. Do not give milk or alcoholic beverages. If symptoms persist, call a physician.

General Advice: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperatures. Use appropriate media for surrounding environment for adjacent fire. Do not use a high-volume water jet

Special protective equipment & precautions for firefighters: Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Follow Standard procedure for chemical fires.

Flash Points: 257°F (125°C)

Specific hazards arising from the chemical: No hazardous combustion products are known. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: Avoid dust formation. Avoid breathing dust. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.

Methods and material for containment and cleaning up: Neutralize with chalk, alkali solution or ammonia. Keep in suitable, closed containers for disposal. Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment.

Conditions for safe storage, incl. any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Sorbic Acid	No exposure limits		

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

Eyes: Wear tightly fitting safety goggles and ensure you have an eye wash bottle with pure water available.

Inhalation: No personal respiratory protective equipment normally required. In the case of dust or aerosol formation use

	respirator with an approved filter. Dust safety masks are recommended when the dust concentration is more than 10 mg/m ³ .
Body:	Wear gloves (the suitability for a specific workplace should be discussed with the producers of the protective gloves) and dust impervious protective suit. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Other:	Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid	Vapor Pressure:	No data available
Odor:	Characteristic	Relative Vapor Density:	3.87
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	White	Flammability:	No data available
Molecular Weight:	No data available	Upper/lower Explosive Limit:	No data available
pH at 68 °F (20 °C):	3.3 at 1.6 g/l	Flash Point:	257 °F (125 °C)
Boiling Point:	No data available	Specific Gravity:	No data available
Melting/Freezing Point:	270 - 275 °F (132 - 135 °C)	Water Solubility 68 °F:	1.6 g/l
Relative Density at 68 °F:	1.2	Auto-Ignition Temperature:	266 °F (130 °C)
Density at 68 °F:	1.2 g/cm ³	Oxidizing Properties:	No data available
Bulk Density:	650 kg/m ³	Thermal Decomposition:	374 °F (190 °C)
Partition Coefficient: n-octanol/water:	No data available	Explosive Properties:	No data available
Viscosity:	No data available		

10 STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	No data available.
Conditions to Avoid:	Keep away from heat, flame, sparks and other ignition sources.
Incompatible Materials:	Do not store near acids.
Hazardous Decomposition Products:	No data available.
Possible Hazardous Reactions:	No hazards to be specially mentioned.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Skin:	Irritating to skin.
Eyes:	Irritation to eyes, reversing within 7 days.
Inhalation:	No data available.
Ingestion:	No data available.
Carcinogenicity:	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
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.
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.
Teratogenicity:	No data available.
Germ Cell Mutagenicity:	No data available.
Embryotoxicity:	No data available.
STOT Single Exposure:	The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Aquatic Vertebrate:	No data available.
Aquatic Invertebrate:	No data available.
Terrestrial:	No data available.
Persistence and Degradability:	Aerobic; Inoculum: activated sludge; Result: Readily biodegradable; Biodegradation: 74.9%; Exposure time: 28 days.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	No data available.
Other Adverse Effects:	Ozone-Depletion Potential: (Regulation) 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances. (Remarks) This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product.
Product Containers:	Empty remaining contents. Do not re-use empty containers. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not regulated as a dangerous good.
TDG (Transportation of Dangerous Goods, Canada):	No data available.
IMDG (International Maritime Dangerous Goods):	Not regulated as a dangerous good.
IATA (International Air Transport Association):	Not regulated as a dangerous good.
ICAO (International Civil Aviation Organization):	No data available.

15 REGULATORY INFORMATION

TSCA Inventory Status:	On TSCA Inventory.
WHMIS Classification:	D2B: Toxic Material Causing Other Toxic Effects.
CERCLA RQ:	This material does not contain any components with a CERCLA Reportable Quantity.
SARA 304:	This material does not contain any components with a section 304 Extremely Hazardous Substances Reportable Quantity.
SARA 311/312:	Acute Health Hazard.
SARA 302:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313:	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.
Clean Air Act:	This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489): Sorbic Acid (CAS#: 110-44-1).
Clean Water Act:	This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.
MA Right to Know:	No components are subject to the Massachusetts Right to Know Act.
PA Right to Know:	Sorbic Acid 100% (CAS# 110-44-1).
NJ Right to Know:	Sorbic Acid 100% (CAS# 110-44-1).
California Prop. 65:	This product does not contain any chemicals known to State of California to cause cancer, birth

Canada (DSL):	defects, or any other reproductive harm.
China (IECSC):	All components of this product are on the Canadian DSL.
Australia (AICS):	On the inventory, or in compliance with the inventory.
Japan (ENCS):	On the inventory, or in compliance with the inventory.
Philippines (PICCS):	On the inventory, or in compliance with the inventory.
Korea (KECI):	On the inventory, or in compliance with the inventory.
New Zealand (NZIoC):	On the inventory, or in compliance with the inventory.

16 OTHER INFORMATION

Revision Date:	18-Jun-2025
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This 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 other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.