

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Sorbic acid

Cat No: S062

Cas No.: 110-44-2

Synonyms: 2, 4-Hexadienoic acid

Company Information: LEONID CHEMICALS Pvt Ltd, 62/A-2, 1<sup>st</sup> Stage, Yeshvanthpur Industrial Suburb,

Asoka puram School Road,

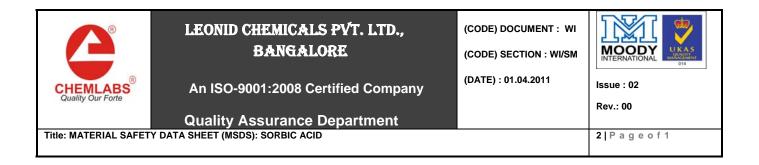
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# 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture According to Regulation (EC) No1272/2008 Skin irritation (Category 2) Eye irritation (Category 2) Specific target organ toxicity - single exposure (Category 3) According to European Directive 67/548/EEC as amended. Irritating to eyes, respiratory system and skin. Label elements Pictogram Signal word Warning Hazard statement(s) H315 Causes skin irritation. H319 Causes serious eye irritation.



H335 May cause respiratory irritation. Precautionary statement(s) P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Hazard symbol(s) Xi Irritant R-phrase(s) R36/37/38 Irritating to eyes, respiratory system and skin. S-phrase(s) S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Other hazards - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

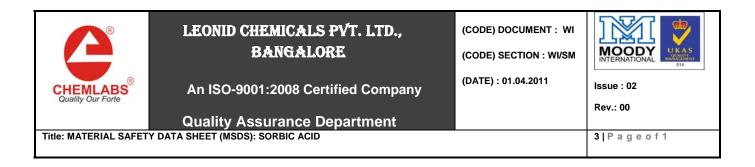
Formula: C<sub>6</sub>H<sub>8</sub>O<sub>2</sub> Molecular Weight: 112.13 g/mol CAS-No.: 110-44-1

203-768-7 - Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335 Xi, R36/37/38 For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 4. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES



Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**Environmental precautions** 

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

## Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Personal protective equipment

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

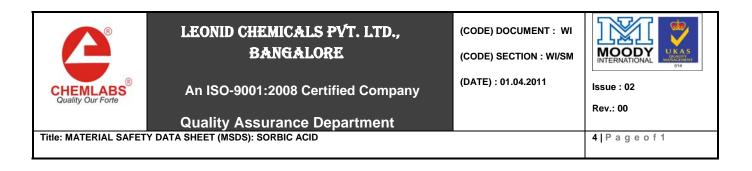
# Handle with gloves.

Eye protection

Safety glasses with side-shields conforming to EN166

# Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.



Hygiene measures

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

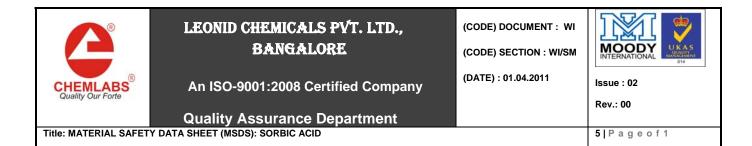
#### 9. PHYSICAL AND CHEMICAL PROPERTIES

ppearance	
orm: crystalline	
olour: white	
afety data	
H: 3.3 at 1.6 g/l at 20 °C	1
lelting point: 132 - 135 °C - lit.	
oiling point: 170 °C - Decomposes on heating.	V
lash point: 127 °C - closed cup	
nition temperature: no data available	
ower explosion limit: no data available	
pper explosion limit: no data available	
apour pressure: 0.01 hPa at 20 °C	
ensity: 1.200 g/cm <sup>3</sup> at 20 °C	
/ater solubility: no data available	
artition coefficient: n-octanol/waterlog Pow: 1.858	
0. STABILITY AND REACTIVITY	
hemical stability	

Stable under recommended storage conditions. Conditions to avoid Light. Materials to avoid Bases, Oxidizing agents, Reducing agents Bases, Oxidizing agents, Reducing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Thermal decomposition > 170 °C

**11. TOXICOLOGICAL INFORMATION** 

Acute toxicity LD50 Dermal - rabbit - > 1.000 mg/kg Skin corrosion/irritation Serious eye damage/eye irritation Eyes - rabbit - Moderate eye irritation



Respiratory or skin sensitization no data available Germ cell mutagenicity Genotoxicity in vitro - Hamster - Lungs Sister chromatid exchange Carcinogenicity Carcinogenicity - rat - Subcutaneous Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application. 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. Reproductive toxicity no data available Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Potential health effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation. Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Additional Information RTFCS: WG2100000 **12. ECOLOGICAL INFORMATION** Toxicity no data available Persistence and degradability no data available **Bioaccumulative potential** no data available Mobility in soil no data available PBT and vPvB assessment no data available



Other adverse effects no data available

## **13. DISPOSAL CONSIDERATIONS**

#### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

ADR/RID Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **16. OTHER INFORMATION**

Text of H-code(s) and R-phrase(s) mentioned in Section 3 Eye Irrit. Eye irritation H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Skin Irrit. Skin irritation STOT SE Specific target organ toxicity - single exposure Xi Irritant R36/37/38 Irritating to eyes, respiratory system and skin.

#### Further information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other

	LEONID CHEMICALS PVT. LTD., BANGALORE	(CODE) DOCUMENT : WI (CODE) SECTION : WI/SM	
CHEMLABS Quality Our Forte	An ISO-9001:2008 Certified Company	(DATE) : 01.04.2011	Issue : 02
quality our forte	Quality Assurance Department		Rev.: 00
Title: MATERIAL SAFET	<b>7  </b> P a g e o f 1		

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# Specification manual - Sorbic Acid

MW: 122.13

C6H8O2Product: Sorbic Acid LRDescription: White crystalline powderCat No: S062Cas No: 110-44-1Prepared Date: 28.01.2008Approved Date: 28.01.2008

<b>REVISION HISTORY</b>					
Issue/Rev	Description of Change		Author	Effective Date	
01/00	Initial Release		S. Paul Joshua	28.01.2008	
02/00	Reviewed no changes		S. Paul Joshua	01.04.2011	
Next Review Due :		02.04.2015			
To be reviewed by : Head-QC/QA					

Sl. No.	Tests	Specification
		LR
1	Assay (acidimetric)	Min 98.5%
2	Melting point	133 - 136°C
3	UV	$\lambda_{\rm max} = 264 \ \rm nm$
4	Water	0.5 %

Approved By: S.Paul Joshua, Head Quality Control and Quality Assurance

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