SAFETY DATA SHEET



SORBIC ACID

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	110-44-1
EC number:	204-643-4.
1.2 SYNONYMS	 2,4-Hexadienoic acid (E,E)-2,4-Hexadienoic acid Hexa-2,4-dienoic acid Trans,trans-2,4-Hexadienoic acid Sorbistat

SECTION 2: Hazards identification:

2.1 Classification of the substance	Classification according to
or mixture:	Regulation (EC) No 1272/2008 The
	substance is classified according to
	the CLP regulation.
2.2 Label elements:	Labelling according to Regulation
	(EC) No 1272/2008
	 Skin corrosion/irritation
	(Category 2)
	 Serious eye damage/eye
	irritation (Category 2)
	 Specific target organ toxicity
	(single exposure) (Category 3)
Hazard Pictograms:	
	(!)
VOLID CHEWIC	N DADTMED
Signal Word:	Danger – Danger
Hazard statements:	H319: Cause serious eye irritation
	H335: May cause respiratory
	irritation
	H315: Cause skin irritation
Precautionary Statements:	P261: Avoid breathing
1	1
	dust/fume/gas/mist/vapours/spray.
	P280: Wear protective



ESTD.	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313: If eye irritation persists: Get medical attention P403 + P233: Store in a well-ventilated place. Keep container tightly closed P501: Dispose of contents/container to an approved waste
	disposal plant
2.3 Other hazards:	Dust forms explosive mixtures with air.
Inhalation:	can cause respiratory irritation, coughing, sneezing and sore throat.
Ingestion:	can cause severe gastrointestinal
	irritation, nausea, vomiting, and abdominal pain.
Skin Contact:	an cause severe burns, irritation, and allergic reactions,
Eye contact:	May cause irritation, redness, pain and burning sensation.
Chronic Exposure:	may lead to long-term skin or respiratory irritation, sensitization, or damage to the lungs, liver, and other organs, depending on the level and duration of exposure.
Aggravation of pre-existing	may aggravate pre-existing
conditions:	respiratory conditions, such as
YOUR CHEMIC	asthma or chronic obstructive pulmonary disease (COPD), and skin conditions like dermatitis.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 110-44-1 SORBIC ACID
Identification number(s):	EC number: 204-634-4



SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician
After skin contact:	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes. Consult a physician.
After eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After swallowing:	Gargle, drink plenty of water Never give anything by mouth to an unconscious person. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1 Extinguishing media	Dry chemical, carbon dioxide,
	water spray, alcohol-resistant foam.
5.2 Special hazards arising from	Containers may explode when
the substance or mixture	heated.
	Thermal decomposition can lead to
	release of irritating and toxic gases
	and vapors
5.3 Advice for firefighters	Wear fully protective suit, safety
	glasses and respiratory device .
	Do not use a solid water stream as
	it may scatter or spread fire.
5.4 further information	Do not allow entering drains or
	surface water.



SECTION 6: Accidental release measures

6.1 Personal precautions,	Evacuate personnel to safe areas
protective equipment and	Ensure adequate ventilation,
emergency procedures	especially in confined areas
	ELIMINATE all ignition sources (no
	smoking, flares, sparks or flames in
	immediate area)
E511U-	Avoid contact with skin, eyes or
	clothing
	Contaminated work clothing
	should not be allowed out of the
	workplace
	Avoid generation of dust
	Do not breathe dust
	Use personal protection
	recommended in Section 8
	Wash thoroughly after handling
6.2 Environmental precautions:	Prevent further leakage or spillage
	if safe to do so. Do not let product
	enter drains.
6.3 Methods and material for	Use protective equipment while
containment and cleaning up:	cleaning if necessary.
3.1.	Avoid dust formation.
	Dust formation that cannot be
	avoided must be collected
	regularly.
	Use tested industrial vacuum
	cleaners or suction systems for
	areas with a high risk of explosion.
	Do not raise dust while cleaning.
	Use of a blower for cleaning is not
	permitted.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Take care to maintain clean
	working place.
	Do not leave container open.
	Sufficient ventilation must be
	guaranteed for refilling, transfer, or
	open use.
	Avoid spillage.
	Fill only into labelled container.
	Avoid rising dust.



7.2 Conditions for safe storage,	Do not use any food containers -
including any incompatibilities	risk of mistake.
	Containers have to be labelled
	clearly and permanently.
	Store in the original container as
FOTD	much as possible.
- FS111	Keep container tightly closed.
E0 I D I	Recommended storage at room
	temperature.
	Store in a dry place
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
	Containers which are opened must
	be carefully resealed and kept
	upright to prevent leakage.
7.3 Specific end uses	Recommended use: Food additives

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Eye bath required. These locations must be signposted Clearly Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	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



ESTD.	gloves after use in accordance with applicable laws and good laboratory practices. Check the tightness before wear. Wash and dry hands. The following materials are suitable for protective gloves: Nitrile rubber/Nitrile latex - NBR Layer strength 0,11 mm, breakthrough time > 480 min Eye protection: Required
	Lyc protestion. Required
Protection of Body:	Complete suit protecting against
	chemicals, Flame retardant
	antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	
and chemical properties	
General Information	
Appearance: Form:	Powder
Colour:	White
Odour:	Faint
pH-value:	3.3
Melting point/Melting range:	134°C
Boiling point/Boiling range:	The substance decomposes when heated.
Flammability (solid, gaseous):	Combustible solid
Ignition temperature:	415°C
Decomposition temperature:	190°C
Self-igniting:	No data available
Flash point:	125°C
Danger of explosion:	Not applicable
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	No data available
Density at 20 °C:	1.2 g/cm ³
Relative density:	1.2
Vapour density:	3.87
Evaporation rate:	No data available
Solubility in / Miscibility with-	1.6g/I (20°C)
·water at 20 °C:	



Partition coefficient:(n- octanol/water)	1.33
Viscosity:	No data available
Explosive properties:	Dust forms explosive mixtures with
	air

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Dust forms explosive mixtures with air.
10.4 Conditions to avoid	Light, air. Heat, flames and sparks
10.5 Incompatible materials	Bases, Oxidizing agents, Reducing agents.
10.6 Hazardous decomposition products	Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toyical grips!	
11.1 Information on toxicological	
effects	
Acute Toxicity:	LD50 (Oral, Rat) : 7360 mg/kg
	LD50 (Dermal, Rabbit) : no data
	available
	LC50 (Inhalation Rat) : no data
	available
Skin corrosion/Irritation:	Causes skin irritation(Category 2)
Serious eye damage/irritation:	Causes serious eye
Serious eye damage/initation.	
YIIII K I. H F WILL	irritation(Category 2A)
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	Negative
Carcinogenicity:	Negative
Reproductive toxicity:	no data available
Specific target organ toxicity -	May cause respiratory irritation.
single exposure:	
Specific target organ toxicity -	No data available
repeated exposure:	
Aspiration hazard:	No data available



Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Aquatic Toxicity:	Fish LC50 (96h): 75 mg/L
	Aquatic invertebrates EC50 (48h):
FCTD	70 mg/L
- F3111	Aquatic algae and cyanobacteria
	EC50 (72h): 69 mg/L
Biodegradability:	Highly biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	Fish LC50 (96h): 75 mg/L Aquatic invertebrates EC50 (48h): 70 mg/L Aquatic algae and cyanobacteria EC50 (72h): 69 mg/L
12.2 Persistence and degradability:	After 7 days, 65.5 %, of the ThOD were removed. Readily biodegradable
12.3 Bioaccumulative potential:	No data available
12.4 Mobility in soil:	No data available
12.5 Other adverse effects	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	Dispose of in accordance with local
Recommendation:	hazardous waste regulations
	Containers may still present
	chemical hazard when empty.
VOUD CHEMIC	Keep away from hot and
IY U U K G F E IVI I G	ignition source of fire. Return to
	supplier for recycling if possible.
Recommended cleansing agents:	Water and Mild Soap, Isopropyl
	Alcohol (IPA), Dilute Acid, Baking
	Soda, Enzyme-Based Cleaners



SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	None
IMDG, IATA:	
14.2 UN proper shipping name ·	Not applicable
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	Not applicable
ADR, ADN, IMDG, IATA :	1076
14.4 Packing group · ADR, IMDG,	Not applicable
IATA:	
14.5 Environmental hazards:	No data available
14.6 Special precautions for user	No data available

SECTION 15: Regulatory information

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is not classified as
regulations/legislation specific	harmful substances.
for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances	This substance is not listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.