

H302

Harmful if swallowed.

:

NaturoSORBAL® Safety Data Sheet



Supersedes: 22/12/2023		Revision: 1.4	Revision date: 07/06/2024	Biorefineries
SECTION 1: Identification				
1.1 Identification				
Product form	:	Substance		
Substance name	:	NaturoSORBAL [®]		
CAS No	:	142-83-6		
EC/ List No	:	205-564-3		
Formula	:	C ₆ H ₈ O		
Synonyms	:		ans,trans-2,4-Hexadienal / 2,4-Hex (E,E)- / Sorbic aldehyde, Sorbalde	
1.2 Relevant identified uses of the subs	stance		ed against	
Use of the substance/mixture	:	Pharmaceutical Intermedia	ate and perfumery intermediate.	
Relevant identified uses	:	Pharmaceutical Intermedia	ate and perfumery intermediate.	
Uses advised against:	:	No relevant information ava	ailable.	
1.3 Details of the supplier of the safety	data sl	heet		
Godavari Biorefineries Ltd. 45/47, Somaiya bhavan, Mahatma Gandhi Road, Fort, Mumbai -400001, INDIA. T 0091 22 22048272 Email: <u>alka@somaiya.com</u> www.somaiya.com				
1.4 Emergency telephone Number				
Emergency number	:	0091 2423 279308		
		0091 22 61702100 / 22048	3272 (Monday – Friday - 09.30 hrs t	o 18.00)
SECTION 2: Hazard(s) identification	า			
GHS classification				
2.1 Classification of the substance or n	nixture			
Flammable Liquid. Category 3	:	H226 Flammable liquid and	d vapour.	
Acute Toxicity-Oral Category 4	:	H302 Harmful if swallowed	I.	
Acute Toxicity-Dermal Category 3	:	H311 Toxic in contact with	skin.	
Skin irritation Category 2	:	H315 Causes skin irritatior	٦.	
Skin Sensitization category 1	:	H317 May cause an allergi	ic skin reaction.	
Eye Irrititation. Category 2	:	H319 Causes serious eye		
2.2 GHS labeling	-			
Hazard pictograms (GHS-US)	:	GHS02	GHS 06	
Signal word (GHS-US)	:	Danger		
Hazard statements (GHS-US)				
H226 : Flammable liqu	id and	vapour.		
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H311	:	Toxic in contact with skin.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H317	:	May cause an allergic skin reaction.
Precautionary stat	eme	nts (GHS-US)
P210	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources
P261	:	Avoid breathing fume, gas, mist, spray, vapors
P264	:	Wash hands, forearms and face thoroughly after handling
P265	:	Do not touch eyes
P270	:	Do not eat, drink or smoke when using this product
P272	:	Contaminated work clothing must not be allowed out of the workplace
P280	:	Wear eye protection, face protection, protective clothing, protective gloves
P301+P310	:	If swallowed: Immediately call a doctor, a POISON CENTER
P301+P330+P331	:	If swallowed: rinse mouth. Do NOT induce vomiting
P302+P352	:	If on skin: Wash with plenty of water
P303+P361+P353	:	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	:	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P333+P313	:	If skin irritation or rash occurs: Get medical advice/attention.
P321	:	Specific treatment (see supplemental first aid instructions on this label)
P330	:	Rinse mouth
P361	:	Take off immediately all contaminated clothing.
P362+P364	:	Take off contaminated clothing and wash it before reuse.
P363	:	Wash contaminated clothing before reuse.
P370+P378	:	In case of fire: Use alcohol resistant foam, dry sand to extinguish
P403+P235	:	Store in a well-ventilated place. Keep cool.
P405	:	Store locked up.
P501	:	Dispose of contents/container to an approved waste disposal plant
2.3 Other hazards		

2.3 Other hazards

Other hazards not contributing to the : None. Classification

2.4 Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/Information on ingredients

3.1 Substance

Substance type	:	Mono-constituent	
Name	Product Identifier CAS No. EC No.	Concentration %	GHS Classification
NaturoSORBAL [®] (Main constituent)	142-83-6 205-564-3	≥ 90 %	Flam. Liq. 3 H224 Acute Tox. 4 H302
			Acute Tox. 3 H311





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		Skin Irrit. 2 H315
		Skin Sens. 1 H317
		Eye Irrit. 2 H319
Synthetic Alpha 10191-41-0 Tocopherol 233-466-0 (Stabiliser)	0.5 %	Skin Sens. 1B H317

Full text of hazard classes and H-statements : see section 16

3.2 Mixture	
Not Applicable.	
SECTION 4: First aid measures	
4.1 Description of first aid measures	
First-aid measures general	: Do not leave affected persons unattended .First aid personnel should pay attention to their own safety.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Protect unharmed eyes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician.
First-aid measures after ingestion	Rinse mouth. Call a physician immediately. Do not induce vomiting.
4.2 Most important symptoms and effect	cts, both acute and delayed
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Irritating to eyes.
Symptoms/effects after ingestion	: Burns.
SECTION 5: Firefighting measures	
5.1 Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2 Special hazards arising from the su	bstance or mixture
Fire hazard	Combustible liquid.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3 Advice for firefighters	
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety location. Do not move the load if exposed to heat. Use water moderately and if possible, collect or contain it.
Protection during firefighting	: Wear self-contained breathing apparatus for firefighting if necessary. Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release mea	asures
6.1 Personal precautions, protective eq	uipment and emergency procedures
6.1.1 For non-emergency personnel	
Protective equipment	: Handle in accordance with good industrial hygiene and safety practice.Do not eat, drink or smoke when using this product.Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.



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Emergency procedures	:	No open flames, no spark and clothing. Do not breath	s, and no smoking. Avoid contact with skin, eyes ne fume, gas, mist, spray, vapors.
6.1.2 For emergency responders			
Protective equipment	:	•	ction without suitable protective equipment. For section 8: "Exposure controls/personal protection".
Emergency procedures	:	Stop leak if safe to do so. V	/entilate area.
6.2 Environmental precautions			

Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers, water bodies. Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up			
For containment	:	Contain released substance, transfer (pump) into suitable containers. Use compatible material of containers. Do not use compressed air for pumping over spills.	
Methods for cleaning up	:	Take up liquid spill into absorbent material.	
Other information	:	Dispose of materials or solid residues at an authorized site.	
6.4 Reference to other sections			
For further information refer to section 13.			
SECTION 7: Handling and storage			
7.1 Precautions for safe handling			
Procentions for safe handling	•		

Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe fume, gas, mist, spray, vapors.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when

using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including	7.2 Conditions for safe storage, including any incompatibilities				
Incompatible products	:	Oxidizing agent, Reducing agents			
Incompatible materials	:	Direct sunlight. Heat sources. Sources of ignition.			
Prohibitions on mixed storage	:	Keep Substance Away From: combustible materials. oxidizing agents.			
Storage area	:	Store in a dry area. Ventilation at floor level. Keep out of direct sunlight. Fireproof storeroom. Keep locked up. Meet the legal requirements. Avoid moisture. Keep container tightly sealed.			
Special rules on packaging	:	Special Requirements: closing. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.			

7.3 Specific end uses

No data available.





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SECTION 8: Exposure controls/pe	rsonal p	protection		
8.1 Control parameters				
8.1.1 Occupational exposure limits:				
Exposure limits not established in US. 8.2 Exposure controls				
Appropriate engineering controls	:	the immediate vicinity of an	tains and safety showers should b by potential exposure. Material shou al dispensing area whenever possil	Id be handle
Personal protective equipment	:	Protective Gloves GIVE EXCELLENT RESIST	ANCE	
Material of gloves	:	Butyl rubber, BR		
Eye protection	:	Safety glasses, face shield		
Skin and body protection	:	Head/neck protection. Corro	osion-proof clothing, protective suit	
Respiratory protection	:	Use appropriate respiratory Use NIOSH/MSHA approve	device when necessary. d respirator appropriate for exposur	re of concern
SECTION 9: Physical and chemica	l prope	rties		
9.1 Information on basic physical and	chemica	al properties		
Physical state	:	Liquid		
Appearance	:	Liquid		
Colour	:	Yellow to brown		
Odour	:	Fatty sweet green odor alde	ehyde odor	
Melting point	:	Not Available		
Freezing point	:	Not Available		
Initial boiling point/boiling range	:	76 °C (at 30 mmHg)		
Flash Point	:	154 °F (open cup)		
Density	:	0.888 - 0.898 g/cm ³		
Molecular mass	:	96.13 g/mol		
Flammability(Solid, Gas)	:	Flammable Liquid		
Solubility	:	Highly Soluble		
Vapor pressure	:	No data Available		
Partition coefficient n-octanol/water	:	No data Available		
Auto-ignition temperature	:	No data Available		
N. 8				
Viscosity	:	No data Available		

No Data Available.





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SECTION 10: Stability and reactivity			
10.1 Reactivity	:	The product is non-reactive u transport	nder normal conditions of use, storage and
10.2 Chemical Stability	:	Stable under recommended sto	rage conditions
10.3 Possibility of hazardous reactions	:	No dangerous reactions known	under normal conditions of use.
10.4 Conditions to avoid	:	Avoid contact with hot surface sources of ignition	es. Heat. No flames, no sparks. Eliminate all
10.5 Incompatible materials	:	May react with Strong oxidizing	agents, Reducing agents.
10.6 Hazardous decomposition products	:		lucts formed under fire conditions Nature of own and may form mixture of hazardous gas n dioxide

SECTION 11: Toxicological information				
11.1 Information on toxicological effects				
Likely routes of exposure	:	Ingestion, Skin and eye contact		
Acute toxicity	:	Not classified.		
NaturoSORBAL [®] (142-83-6)				
LD50 oral toxicity (Rat)	:	300 mg/kg bw (Acute Toxicity: oral)		
LD50 dermal toxicity (Rat)	:	270 μl/kg (Acute Toxicity: dermal)		
Skin irritation	:	Causes skin irritation		
Serious eye damage/irritation	:	May cause eye irritation.		
Respiratory or skin sensitization	:	May cause an allergic skin reaction.		
Germ cell mutagenicity	:	Not classified		
Carcinogenicity	:	Not classified		
Reproductive toxicity	:	Not classified		
Specific target organ toxicity – single exposure	:	Not classified		
Specific target organ toxicity – repeated exposure	:	Not classified		
Aspiration hazard	:	Not classified		

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information		
12.1 Toxicity		
Ecology - general	:	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/22155-60-48.
Ecology - air	:	Not classified as dangerous for the ozone layer (Regulation (EC) No 12155-60-45/22155-60-49).



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Ecology – water	:	Not classified as dangerou of Regulation (EC) No 1272	s for the environment according to the cri 2/22155-60-48.
Ecology - general	:	Before neutralization, the programs or ganisms.	roduct may represent a danger to aquatic

NaturoSORBAL [®] (142-83-6)						
		Toxicity to Fish	Toxicity to aquatic invertebrates	Toxicity to aquatic plants	Toxicity to Microorganisms	
Species	:	Oncorhynchus mykiss (rainbow trout)	Pseudokirchneriellasubca pitata	Daphnia magna	Pseudomonas putida	
Value	:	No data available	No data available	No data available	No data available	
Exposure time	:	-	-	-	-	

12.2 Persistence and degradability

No additional information available.

12.3 Bio accumulative potential

No additional information available.

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal recommendations

Remove and dispose waste in accordance with local and/or national : regulations. Recommended practice of distillation, chemical/biological treatment and authorized waste incinerator for solvents

		with energy recovery. Do not discharge into drains or the environment.
SECTION 14 : Transport Information		
Marine transport (IMDG)		
UN/ID No.	:	UN1992
Proper shipping name and description	:	Flammable liquids, toxic, n.o.s. (trans,trans2,4-Hexadienal)
Hazard Class	:	3 Flammable liquids
Packing group	:	III
Hazard Identification Number	:	36
Marine pollutant	:	No
Hazard Labels	:	3+6.1
EMS Code	:	F-E,S-D
Air transport ICAO/IATA		
UN number	:	UN1992
Proper shipping name	:	FLAMMABLE LIQUID, TOXIC, N.O.S.(trans,trans-2,4-Hexadienal)
Hazard Class	:	3 Flammable liquids
Packing group	:	III
Hazard Labels	:	3 + 6.1

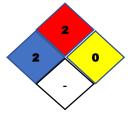


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Department of Transportation (DOT)			
UN number	:	UN1992	
Proper shipping name and description	:	Flammable liquids, toxic	, n.o.s. (trans,trans2,4-Hexadienal)
Transport hazard Class	:	3 Flammable liquids	
Packaging group	:	III	
Quantity limitations	:	On passenger aircraft/ra On cargo aircraft only: 2	
Hazard labels (DOT)	:	3 - Flammable liquid	6

SECTION 15: Regulatory information 15.1 National regulations				
Country	National Inventories	Listing		
AUSTRALIA	AICS	Listed		
CANADA	DSL	Listed		
CHINA	IECSC	Listed		
EUROPE	EC	Listed		
MASSACHUSETTS	MSL	Listed		
NEWZEALAND	NZIoC	Listed		
PHILIPPINES	PICCS	Listed		
SOUTH KOREA	KECI	Listed		
TAIWAN	TCSI	Listed		
USA	TSCA	Listed		

16.1 Hazard Statement

16.2 NFPA Rating		
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H315	:	Causes skin irritation.
H311	:	Toxic in contact with skin
H302	:	Harmful if swallowed.
H226	:	Flammable liquid and vapour.



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16.3 Abbreviations and acronyms

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PBT =Persistent Bioaccumulative and Toxic.

vPvB= Very Persistent and Very Bioaccumulative.

SCBA= Self Contained Breathing Apparatus.

NIOSH REL= National Institute for Occupational Safety and Health Recommended Exposure Limit.

OSHA PEL=Occupational Safety and Health Adminstration Permissible Exposure Limit.

OELTWA= Occupational Exposure Limit Time Weighted Averages

IDLH= Immediately Dangerous to Life or Health

UEL= Upper Explosive Limit

LEL= Lower Explosive Limit

RTECS= Registry of Toxic Effects of Chemical Substances

NTP=National Toxicology Programm

IARC= International Agency for Research on Cancer

EPA=Environmental Protection Agency

TSCA= Toxic Substances Control Act

NFPA= National Fire Protection Association

CSR=Chemical Safety Report

BCF = Bio Concentration Factor

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

TLV = Threshhold Limit Value

ACGIH = American Conference of Governmental Industrial Hygienist

REACH = Registration, Evaluation .Authorisation and Restriction of Chemicals

CLP = Classification, Labelling and Packaging

LD / LC = Lethal Doses / Lethal Concentration

GHS = Globally Harmonised System

ADR = Accord europeen relative au transport international de marchandises

IMDG-Code = International Maritime Code for Dangerous Goods

EmS = Emergency measures on Sea

ICAO = International Civil Aviation Organization

IATA/DGR= International Air Transport Association/Dangerous Goods Regulation

16.4 Further information:

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