



SAFETY DATA SHEET

Revision Date 06/15/2017
Date of the previous version 10/06/2015

Version 2
US/CA

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Formulation of Sodium-S-(-)-2-hydroxy propionate and Sodium-R-2,3,4,5,6-pentahydroxyhexanoate	
Trade name	PURASAL® MOIST XS	
Recommended Use	Cosmetics.	
Uses advised against	No information available.	
Supplier	Purac Biochem Arkelsedijk 46 NL-4206 AC Gorinchem The Netherlands Tel.: +31 183 695695 Fax: +31 183 695604 E-mail: sds@corbion.com	Purac America, Inc. 7905 Quivira Rd. Lenexa KS 66215 USA Tel: +1 800 669 4092 Fax: +1 913 888 4970
Emergency telephone	Purac America, Inc. +1 800 4249300	

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazard Statements	Not applicable.
Precautionary Statements	Not applicable.
Main symptoms	May cause eye irritation with susceptible persons.
Environmental hazard	Contains no substances known to be hazardous for the environment. See Section 12 for additional Ecological Information.
Physical state @20°C	Liquid
Appearance	Clear
Colour	Colourless
Odour	Odourless
Interactions with Other Chemicals	Incompatible materials: None in particular.
Hazards Not Otherwise Classified (HNOC)	None known.
Unknown toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity.

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SAFETY DATA SHEET

Formulation of Sodium-S-(-)-2-hydroxy propionate and
Sodium-R-2,3,4,5,6-pentahydroxyhexanoate

Revision Date 06/15/2017

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium (S)-lactate	867-56-1	10 - 25
Sodium gluconate	527-07-1	10 - 25

4. FIRST AID MEASURES

General advice	No hazards which require special first aid measures. Wash contaminated clothing before reuse.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Main symptoms	May cause eye irritation with susceptible persons.
Notes to physician	Treat symptomatically.
Protection of first-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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Revision Date 06/15/2017

5. FIRE FIGHTING MEASURES

Flammable properties	Not flammable.
Flash point	Not applicable
Autoignition temperature	No information available
Suitable Extinguishing Media	Water spray, Foam, Dry powder, Carbon dioxide (CO ₂).
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Special Hazard	Hazardous decomposition products formed under fire conditions: Carbon dioxide (CO ₂), Carbon monoxide (CO).
Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus and protective suit.
Fire fighting measures	Evacuate non-essential personnel. Move containers from fire area if you can do it without risk. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate personnel to safe areas. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Large amounts: Prevent further leakage or spillage if safe to do so. Dike to collect large spills. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water. Small amounts: Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water. Never return spills in original containers for re-use.

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Revision Date 06/15/2017

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Ensure adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Storage	Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye Protection	Tightly fitting safety goggles (EN166).
Hand Protection	Protective gloves (EN374): Butyl rubber. Glove thickness: 0.35 mm. Break through time: >8 hours.
Skin and body protection	Long sleeved clothing.
Respiratory protection	None under normal use conditions. In case of insufficient ventilation wear suitable respiratory equipment.
Recommended Filter Type	A, Brown
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.
Environmental Exposure Controls	The product should not be allowed to enter drains, water courses or the soil.

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Revision Date 06/15/2017

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state @20°C	Liquid
Appearance	Clear
Colour	Colourless
Odour	Odourless
pH	6.5 - 8.5 (aqueous solution 5 %)
Melting/freezing point	No information available
Boiling point/boiling range	No information available
Flash point	Not applicable
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	No information available
Explosive limits	Not applicable
Vapour pressure	No information available
Vapour density	No information available
Relative density	1.20
Solubility	
Water solubility	Soluble
Partition Coefficient (n-octanol/water)	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidising properties	No information available
Density	1.2 @20°C

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Materials to Avoid	None in particular.
Conditions to Avoid	None known.
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions: Carbon dioxide (CO ₂), Carbon monoxide (CO).
Hazardous Polymerisation	None known.
Hazardous Reactions	Hazardous polymerisation does not occur.

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Revision Date 06/15/2017

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute toxicity

Ingestion No known effect.
Skin contact No known effect.
Inhalation No known effect.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium (S)-lactate	>2000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>7.94 mg/L (Rat) 4h

Skin corrosion/irritation No known effect.

Serious eye damage/irritation May cause eye irritation with susceptible persons.

Respiratory or skin sensitisation No known effect.

STOT-single exposure No known effect.

Aspiration hazard No known effect.

Chronic toxicity

Carcinogenicity Contains no ingredient listed as a carcinogen.

Germ cell mutagenicity Not known to cause heritable genetic damage.

Reproductive toxicity Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.

STOT-repeated exposure No known effect.

Symptoms

Main symptoms May cause eye irritation with susceptible persons.

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Revision Date 06/15/2017

12. ECOLOGICAL INFORMATION

Ecotoxicity effects Contains no substances known to be hazardous for the environment.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Sodium (S)-lactate	EC50: >2.8 g/L 72h Pseudokirchnerella subcapitata EC50: 3.5 g/L 70h Pseudokirchnerella subcapitata	LC50: 130 mg/L 96h Oncorhynchus mykiss LC50: 320 mg/L 96h Danio rerio	LC50: >100 mg/L 3h	EC50: 130 mg/L 48h Daphnia magna EC50: 250 mg/L 48h Daphnia magna

Persistence and degradability Readily biodegradable.

Bioaccumulative potential Does not bioaccumulate.

Chemical Name	Log P _{ow}	Bioconcentration factor (BCF)
Sodium (S)-lactate	<-1.52	

Mobility in soil No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

According to: US DOT, IMDG, ICAO/IATA, ADR.

Not regulated.

Proper shipping name Not regulated.



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Revision Date 06/15/2017

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL
Sodium (S)-lactate	Listed	Listed
Sodium gluconate	Listed	Listed

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

No information available.

Other information

No information available.

International Regulations

Canada

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

WHMIS Hazard Class

Not subject to WHMIS classification.

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Revision Date 06/15/2017

16. OTHER INFORMATION

Revision Date 06/15/2017
Version 2

Revision Note Composition.

Training Advice Workers must be trained in the proper use and handling of this product as required under applicable regulations.

Abbreviations/acronyms
ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value
OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits
NIOSH IDLH: National Institute for Occupational Safety and Health - Immediately Dangerous to Life or Health
OSHA: Occupational Safety and Health Administration
IARC: International Agency for Research on Cancer
NTP: National Toxicity Program
SARA: Superfund Amendments and Reauthorization Act
ACGIH: American Conference of Governmental Industrial Hygienists
CFR: U.S. Code of Federal Regulations
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DOT: Department of Transport
IMDG: International Maritime Dangerous Goods Code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
WHMIS: Workplace Hazardous Materials Information System
CPR: Controlled Products Regulations

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End of Safety Data Sheet