

Revision Date 12/07/2018
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SAFETY DATA SHEET
Version 2.0 US

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	PURASORB®	
Trade name	PURASORB® PC PURASORB® PD PURASORB® PDL PURASORB® PDLC PURASORB® PDLG PURASORB® PG PURASORB® PL PURASORB® PLC PURASORB® PLD PURASORB® PLDG PURASORB® PLDL PURASORB® PLG	
Recommended Use	Medical applications.	
Uses advised against	No information available.	
Supplier	Purac Biochem bv Arkelsedijk 46 NL-4206 AC Gorinchem The Netherlands Tel.: +31 183 695695 Fax: +31 183 695604 E-mail: sds@corbion.com	Purac America, Inc. 8250 Flint Street Lenexa, KS 66214 USA Tel: +1 800 669 4092 Fax: +1 913 888 4970
Emergency telephone	Purac America, Inc. +1 800 4249300	

2. HAZARD(S) IDENTIFICATION

OSHA Regulatory Status	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Signal Word	Not applicable.
Hazard Statements	Not applicable.
Precautionary Statements	Not applicable.
Main symptoms	No acute and delayed symptoms and effects are observed.
Environmental hazard	Contains no substances known to be hazardous for the environment. See Section 12 for additional Ecological Information.
Physical state @20°C	Solid
Appearance	Granules
Colour	White - Light tan

Odour	Odourless
Interactions with Other Chemicals	Incompatible materials: Water, Moisture (Air).
Hazards Not Otherwise Classified (HNOC)	None known.
Unknown toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature	The product does not contain any hazardous materials with occupational exposure limits established.
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4. FIRST AID MEASURES

General advice	No hazards which require special first aid measures.
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	No acute and delayed symptoms and effects are observed.
Notes to physician	Treat symptomatically.
Protection of first-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE FIGHTING MEASURES

Flammable properties	Not flammable.
Flash point	Not applicable.
Autoignition temperature	No information available.
Suitable Extinguishing Media	Water spray, Foam, 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. Do not breathe dust. 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	Avoid dust formation. Large amounts: Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water. Small amounts: Shovel or sweep up. After cleaning, flush away traces with water. Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not breathe dust. 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 container tightly closed in a dry and well-ventilated place. Handle under inert gas, protect from moisture. Keep at temperatures below 4 °C / 39 °F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not breathe dust. 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 container tightly closed in a dry and well-ventilated place. Handle under inert gas, protect from moisture. Keep at temperatures below 4 °C / 39 °F.
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye protection	Safety glasses with side-shields.
Hand Protection	No special protective equipment required. In case of contact through splashing:: Protective gloves (EN 374).
Skin and body protection	Long sleeved clothing.
Respiratory protection	No special protective equipment required. In case of inadequate ventilation wear respiratory protection (APF).
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. Remove and wash contaminated clothing before re-use.
Environmental Exposure Controls	The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state @20°C	Solid
Appearance	Granules
Colour	White - Light tan
Odour	Odourless
pH	No information available
Melting/freezing point	55-65 °C / 131-149 °F (PC) 150-200 °C / 302-392 °F (PD, PL) Semi crystalline: <230 °C / <446 °F (PDLC, PDLG, PG, PLD, PLDG, PLDL, PLG)
Boiling point/boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable
Flammability Limits in Air	No information available
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	No information available
Solubility	
Water solubility	Insoluble
Partition Coefficient (n-octanol/water)	No information available
Autoignition temperature	No information available
Decomposition temperature	>200 °C / >392 °F
Viscosity, dynamic	Not applicable
Explosive properties	Not explosive
Oxidising properties	Not oxidizing
Density	1.1-1.54 g/cm ³

10. STABILITY AND REACTIVITY

Stability	Reacts with water (Hydrolysis).
Materials to Avoid	Water, Moisture (Air).
Conditions to Avoid	Avoid dust formation. Powdered material may form explosive dust-air mixtures.
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions: Carbon oxides.
Hazardous Polymerisation	Stable under normal conditions.
Hazardous Reactions	None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Skin corrosion/irritation No known effect.

Serious eye damage/irritation No known effect.

Respiratory or skin sensitisation No known effect.

Specific target organ toxicity - 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 cause heritable genetic damage

Specific target organ toxicity - Repeated exposure No known effect.

Symptoms

Main symptoms No acute and delayed symptoms and effects are observed.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects This product is not known to be hazardous to the environment.

Persistence and degradability Hydrolyzes. Hydrolysis product: Readily biodegradable.

Bioaccumulative potential Does not bioaccumulate.

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.

UN Number	Not regulated.
Hazard class	Not regulated.
Packaging group	Not regulated.
Environmental hazards IMDG Marine Pollutant	Not applicable. No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable.

15. REGULATORY INFORMATION

International Inventories

TSCA	Not listed, Exempt
DSL	Not listed, Exempt
NDSL	Not 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

Mexico

Canada

WHMIS Statement Not subject to WHMIS classification.

16. OTHER INFORMATION

Revision Date	12/07/2018
Version	2.0
Revision Note	Indication of the changes made to the previous version of the SDS: Company Logo, Company address.
Training Advice	Workers must be trained in the proper use and handling of this product as required under applicable regulations.
Abbreviations/acronyms	<p>ACGIH TLV: American Conference of Governmental Industrial Hygienists - Treshold Limit Value</p> <p>OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits</p> <p>NIOSH IDLH: National Institute for Occupational Safety and Health - Immediately Dangerous to Life or Health</p> <p>OSHA: Occupational Safety and Health Administration</p> <p>IARC: International Agency for Research on Cancer</p> <p>NTP: National Toxicity Program</p> <p>SARA: Superfund Amendments and Reauthorization Act</p> <p>ACGIH: American Conference of Governmental Industrial Hygienists</p> <p>CFR: U.S. Code of Federal Regulations</p> <p>ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</p> <p>DOT: Department of Transport</p> <p>IMDG: International Maritime Dangerous Goods Code</p> <p>IATA: International Air Transport Association</p> <p>ICAO: International Civil Aviation Organization</p> <p>WHMIS: Workplace Hazardous Materials Information System</p> <p>CPR: Controlled Products Regulations</p>
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Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet