

#01 p.1



Page: 1 of 8
Date Prepared: 2010-08-05
Revision: 1.0-US
Product: sorbion sachet

I-729802 C-22143002-10
I-729803 C-22143004-10
I-729804 C-22143006-10
I-729805 C-22143007-10
I-729806 C-22143009-10

I-734058 C-22143002-10
I-734059 C-22143004-10
I-734060 C-22143006-10
I-734061 C-22143007-10
I-734062 C-22143009-10

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: sorbion sachet S
Product Description: Absorbent wound dressing indicated for moderate to high exuding wounds.

Synonyms: n.a.
Chemical Family: Mixture of wood cellulose and polyacrylate enclosed in polypropylene nonwoven
Chemical Formula: n/a

MANUFACTURER: sorbion Aktiengesellschaft
Im Suedfeld 11
D-48308 Senden
Germany
www.sorbion.com

Distributor USA: Carolon
601 Forum Parkway
Rural Hall,
NC 27045 USA
www.carolon.com
Telephone Number for Information:
336 969-6001

**Emergency Telephone Number
800 334-0414**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Risk Phrases	Safety Phrases	% (w/w)
Sodium polyacrylate	9033-79-8	-	-	48 - 53
Wood pulp	65996-61-4	-	-	37 - 40
Polypropylene	9003-07-0	-	-	5 - 12
Cellulose Tissue	n/a	-	-	2 - 3

3. POTENTIAL HEALTH EFFECTS:

ACUTE: Inhalation of dust particulate may cause mild irritation of upper respiratory tract and lungs.

CHRONIC: Long-term (2 year) inhalation exposure by rats to sodium polyacrylate that had been micronized to a respirable particle size (less than 10 microns) produced non-specific inflammation and chronic lung injury at 0.2mg/m³ and 0.8mg/m³.

At 0.8 mg/m³, lung tumors were seen in some animals. In the absence of chronic inflammation, tumors are not expected. There were no adverse effects of any kind at 0.05mg/m³.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May aggravate existing respiratory conditions; may also aggravate existing skin conditions due to drying effect.

ROUTES OF ENTRY: Inhalation; ingestion

EXPOSURE LIMITS: OSHA PEL: PEL for respirable fraction of nuisance dust is 5mg/m³.
ACGIH TLV: TLV for respirable particulate, not otherwise classified, is 3mg/m³.

4. FIRST AID MEASURES

INHALATION: Remove to fresh air. If persistent irritation, coughing or breathing difficulties occur, get medical attention.

EYE CONTACT: Flush with water. If irritation persists or flushing is inadequate, get medical attention.

SKIN CONTACT: Wash skin with mild soap and water. If a rash, persistent irritation or dermatitis occur, get medical attention.

INGESTION: Get medical attention if any related symptoms occur after accidental ingestion.

5. FIRE & EXPLOSION HAZARD DATA

FLASHPOINT: N/A

FLAMMABLE / EXPLOSIVE LIMITS IN AIR: LEL = see explosion hazards
UEL = n/a

FIRE FIGHTING INSTRUCTIONS: Extinguish with water stream, fog, dry chemical or other agents suitable for Class A fires.

FIRE FIGHTING EQUIPMENT: Do not use water jet. Dust explosion hazard may result from forceful application of fire extinguishing agents.

EXPLOSION HAZARDS: Depending on moisture content, particle diameter and rate of heating cellulose dust may explode in the presence of an ignition source. An airborne concentration of 30.000 mg/m³ is considered often as LEL for cellulose pulp. Dust of this product suspended in air is flammable and poses a definite explosion hazard if ignited.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES Recover spilled material for reuse or proper disposal. Spills may cause very slippery surfaces when wet.

WASTE DISPOSAL METHODS Recycle or dispose of as a non-hazardous, solid waste in accordance with local regulations and requirements.

7. SPECIAL PRECAUTIONS

HANDLING & STORAGE:	Store at normal room temperature and conditions in a dry location.
OTHER PRECAUTIONS:	Handle and store away from ignition sources. Minimize compressed air blowdown or other practices that may generate high dust levels.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION:	Not applicable for product in purchased form. Safety glasses or goggles may be needed if product is used in a way that generates dust.
SKIN PROTECTION:	Not required. But gloves may be needed to protect sensitive individuals.
RESPIRATORY	Not applicable for product in purchased form. NIOSH approved for particulate as needed when allowable dust exposure limits may be exceeded.
OTHER PERSONAL PROTECTION:	None.
VENTILATION:	Local exhaust as needed to control below PEL.
WORK / HYGIENE PRACTICES:	Avoid creation of dust.
EXPOSURE GUIDELINES:	The European Disposables and Nonwoven Association EDANA recommended Industrial Hygiene Guideline is 0.05 mg/m ³ respirable superabsorbent polymer dust (particle size < 10 µm) based on NOEL (see section 10).

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	White
VAPOR PRESSURE:	N/A
VAPOR DENSITY:	N/A
SPECIFIC GRAVITY: (water = 1)	<1
BOILING POINT:	N/A
MELTING POINT:	150 °C – 170 °C / 302 °F – 388 ° F
AUTO IGNITION POINT:	232 °C / 450 °F
pH:	N/A
POLYMERIZATION:	Does not occur.
STABILITY:	Product is stable.
INCOMPATIBILITY:	Avoid acids, bases, strong oxidizing agents and ignition sources.

10. TOXICOLOGICAL INFORMATION

FINISHED PRODUCT ASSESMENT The biological safety of the finished product has been evaluated according to the requirements of DIN EN ISO 10993. The purchased product is intended to be used on chronic wounds within the indication given in the instructions for use.

ACUTE TOXICITY FROM SUPERABSORBENT POLYMERS

TARGET ORGANS: Lungs from dust.

INGESTION: Single dose oral toxicity is considered to be low. The oral LD50 for rats is >2500 mg/kg. No hazards

anticipated from swallowing small amounts incidental to normal handling operations.

SKIN CONTACT: A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The LD50 for skin contact in rats is > 2000 mg/kg.

IRRITATION OF THE SUPERABSORBENT POLYMER

SKIN: Prolonged or repeated exposure is not likely to cause significant skin irritation.

EYES: May cause eye irritation. May cause very slight transient (i.e. temporary) corneal injury.

INHALATION: Dust may cause irritation to upper respiratory tract (throat and nose).

CARCINOGENICITY: Not an OSHA, IARC or NTP carcinogen. A chronic (2 years) lifetime inhalation study with micronized superabsorbent polymer dust (to get completely respirable particles) performed on rats resulted in a non-specific inflammatory response in the lung of the rats, followed in the highest chronic exposure level by tumor development in some animals. In the absence of chronic inflammation tumors are not expected. The study found a definite NOEL of 0.05 mg/m³ of micronized superabsorbent polymer dust.

MUTAGENICITY: In vitro mutagenicity studies were negative. Animal mutagenicity studies were negative.

TERATOGENICITY: N/A

SENSITIZER: N/A

11. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION OF THE SUPERABSORBENT POLYMER

MOBILITY AND BIO-ACCUMULATION POTENTIAL:	Partitioning from water to n-octanol is not applicable. No bioaccumulation is expected because of the relatively high molecular weight (MW > 1000 Da). Potential for mobility in soil is slight (Poc between 2000 and 5000).
DEGRADATION:	Biodegradation is not expected in a wastewater plant. Chemical degradation (hydrolysis) is expected in the environment within month or years.
AQUATIC TOXICITY:	Acute LC50 for fathead minnow (<i>Pimephales promelas</i>) is 610 mg/L. Acute LC50 for water flea (<i>Daphnia magna</i>) is > 1000 mg/L. Material is not harmful to aquatic organisms (LC50/EC50/IC50 > 100 mg/L).

12. DISPOSABLE CONSIDERATION

WASTE DEPOSIT METHOD:	Deposit in a landfill or incinerate in accordance with federal state and local regulations.
-----------------------	---

13. TRANSPORT INFORMATION

Not regulated as a hazardous material by the EC and by the U.S. Department of Transportation. No DOT identification number has been assigned to this product. No special labels are required.

#01 P-8



Page: 8
Date Prepared: 2010-08-05
Revision: 1.0-US
Product: sorbion sachet

13. REGULATORY INFORMATION

CERCLA: This product is not listed as a hazardous substance under 40 CFR 302.4.

SARA TITLE III: 311 / 312 Hazardous Categories: None.
313 Reportable Ingredients: None.

TSCA: This product or components of this product are listed on the TSCA Inventory.

OTHER: We recommend that you contact local authorities to determine if there may be other local reporting requirements.

CALIFORNIA PROPOSITION 65: Some chemical compounds listed by the State of California under Proposition 65 may naturally be present in this product. The manufacturer is unaware of any universal analytical scheme that enables us to analyze this product for the presence or absence of all chemical compounds listed by the State of California. No testing has been done for Proposition 65 listed chemical compounds.

13. OTHER INFORMATION

For more non-emergency information about this product, please call the distributor or the manufacturer.

THE INFORMATION IN THIS SAFTY DATA SHEET IS GIVEN IN GOOD FAITH AND RELATES TO THIS SPECIFIC MATERIAL. IT IS ACCURATE TO THE BEST OF OUR KNOWLEDGE BUT IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USERS' RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR THEIR OWN PARTICULAR USE AND UNDER LOCAL HEALTH AND SAFETY LEGISLATIONS.

Effective date: 2010-08-05
Supersedes: -

n/a = not available

N/A = Not Applicable