


Safety Data Sheet

1. IDENTIFICATION

Product Identifier	FluidSAP 100
Other means of identification	
Synonyms	Sodium polyacrylate, crosslinked
Manufacturer/Importer/Supplier/Distributor Information	
Manufacturer	
Address	Fluid Tech LLC 130 N. 12 th Street Montpelier, ID 83254 USA
Telephone	(800) 995-5691
Facsimile	(800) 994-8561
Website	www.fluidtechllc.com
Emergency Phone	(865) 809-9995
Recommended Use	Granular absorbent material.
Recommended Restrictions	None known.

2. HAZARD(S) IDENTIFICATION

Physical hazards	May cause eye, skin and respiratory irritation.
Health hazards	All materials present an inhalation risk and should be treated as a nuisance dust per the American Conference of Governmental Industrial Hygienists (ACGIH). An 8-hour exposure limit of 0.05 mg/m ³ is recommended due to the potential for respiratory tract irritation.
Environmental hazards	Not classified.
OSHA defined hazards	None.
Label elements	
Pictograms	
Signal words	Warning!
Hazard statement	Low hazard for usual industrial or commercial handling and use by trained personnel.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention. This product is not combustible per NFPA. In case of fire, use appropriate media to extinguish.

Storage	Keep product in dry and sealed containers to avoid moisture uptake.
Disposal	Dispose of contents/container in accordance with related regulations.
Hazard(s) not otherwise classified (HNOC)	Material can be slippery when wet.
Supplemental information	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
Sodium polyacrylate, crosslinked	Acrylic acid polymer, sodium salt	9003-04-7	>95

4. FIRST-AID MEASURES

Inhalation	If inhaled, remove to a dust free area with fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Inhalation may aggravate existing respiratory illness. In case of unconsciousness, place patient stably in side position before transporting.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth with water and drink water. Get medical attention if symptoms occur. If ingestion of a large amount does occur, seek medical attention.
Most important symptoms/effects, acute and delayed	Not applicable.
Indication of immediate medical attention and special treatment needed	Not applicable.
General information	No hazards which require special first aid measures. Material can be slippery when wet.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog. Foam. Dry chemical powder.
Unsuitable extinguishing media	Carbon dioxide (CO ₂). Water jet. Use fire-extinguishing media appropriate for surrounding materials.
Specific hazards arising from the chemical	Material can be slippery when wet.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. In case of fire and/or explosion do not breathe fumes.
General fire hazards	None known. Product is non-flammable. Product is not an explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Local exhaust. Normal room ventilation. Material can be slippery when wet. Use caution to avoid falls.
Methods and materials for containment and cleaning up	Sweep or vacuum materials and transfer to a container for recovery or disposal. Keep containers sealed to avoid moisture uptake.
Environmental precautions	No special environmental precautions required.

7. HANDLING AND STORAGE

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes. Avoid prolonged exposure to skin. Material is slippery when wet.
Conditions for safe storage, including any incompatibilities	Store in a dry area. Keep containers sealed to avoid moisture uptake.
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Do not allow water to contact the product until time of use to preserve product utility.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits	There are no exposure limits noted for this material. However, an 8-hour exposure limit of 0.05 mg/m ³ is recommended due to the potential for respiratory tract irritation.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Occupational exposure to nuisance dust (total and respirable) should be monitored and controlled.
Appropriate engineering Controls	Normal ventilation is sufficient.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields. Use tight fitting goggles if dust is generated.
Skin protection	
Hand protection	Wear appropriate gloves to minimize skin contact.
Other	Wear suitable protective clothing. Normal work clothing (long sleeved shirts and long pants) is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards
General hygiene considerations

Not applicable.
 Do not breathe dust. When using, do not eat, drink or smoke. Avoid contact with eyes. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Granules/crystals
Physical state	Solid
Form	Granules/crystals
Color	White
Odor	Odorless
Odor threshold	Not applicable
pH	5.0 – 6.5
Melting point/freezing point	> 190° C
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	< 1.0
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not applicable
Flammability limit - upper (%)	Not applicable
Explosive limit - lower (%)	Not applicable
Explosive limit - upper (%)	Not applicable
Vapor pressure	< 10 mm Hg
Vapor density	Not applicable
Relative density	Not available
Solubility(ies)	
Solubility (water)	Insoluble
Auto-ignition temperature	Not applicable
Decomposition temperature	> 200° C
Viscosity	Not applicable
Other information	
Percent volatile	0% estimated
Specific gravity	0.4 - 0.7

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.



Conditions to avoid	Exposure to moisture. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation.
Incompatible materials	None known.
Hazardous decomposition products	No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Inhalation of dusts may cause respiratory tract irritation. Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected. However, prolonged exposure may cause skin irritation.
Eye contact	Dust in the eyes will cause irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to dust.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
FluidSAP 100		
Acute		
<i>Dermal</i>		
LD50	Rat	>2,000 mg/kg, 24 hours estimated
<i>Inhalation</i>		
LC50	Rat	>2,000 mg/l estimated
<i>Oral</i>		
LD50	Rat	>2,000 mg/kg, 24 hours estimated

Skin corrosion/irritation	Prolonged skin contact may cause irritation.
Serious eye damage/eye irritation	Dust in the eyes will cause irritation.
Respiratory or skin sensitization	
Respiratory Sensitization	This product is not expected to cause respiratory sensitization.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	None.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity - repeated exposure	May cause respiratory irritation. Prolonged/repeated exposure may worsen irritation.
Aspiration hazard	Not available.
Chronic effects	A chronic (two-year) lifetime inhalation study on rats with respirable super absorbent polymer dust (micronized to <10 microns) resulted in an unspecified inflammatory response in the lungs followed by tumor development in some rats in the highest chronic exposure level of 0.8 mg/m ³ . In the absence of chronic inflammation, tumors are not expected.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to be harmful to aquatic or terrestrial organisms. The product is not classified as environmentally hazardous.
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Product	Species	Test Results
FluidSAP 100		
Aquatic		
<i>Algae</i>		
EC50	Selenastrum capricornutum (alga)	> 100 mg/l, 72 hours Growth rate
<i>Crustacea</i>		
EC50	Daphnia	> 100 mg/l, 48 hours OECD 202
NOEC	Daphnia	> 100 mg/l, 48 hours OECD 202
<i>Fish</i>		
LC50	Zebra danio (Danio rerio)	> 100 mg/l, 96 hours
NOEC	Zebra danio (Danio rerio)	> 100 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability	Not inherently biodegradable.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose/incinerate in sealed containers at licensed waste disposal site. Dispose/incinerate of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/ unused products	Material should be recycled if possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe



manner (see: Disposal instructions). Dispose of in accordance with local regulations. Can be landfilled, when in compliance with local regulations.

Contaminated packaging

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

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

Transport in bulk according To Annex II of MARPOL 73/78 and the IBC Code Not applicable.

Other Transportation Information

Labels None.

15. REGULATORY INFORMATION

US Federal Regulations

This product is not regulated as hazardous under 29 CFR and 49 CFR.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No.

SARA 313 (TRI reporting)

Not regulated.

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.



Toxic Substances Control Act (TSCA)

Not regulated.

US State Regulations

Not regulated.

International Inventories

CEPA (Canada)	Domestic Substances List (DSL) - all substances listed or not required
WHMIS (Canada)	Not a controlled product
EINECS (Europe)	Conforms
ENCS (Japan)	Conforms
TSCA (United States)	Not listed

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date October 31, 2017

Revision date None

Version # 0

Further information Hazard Rating: Health 1, Flammability 1, Reactivity 0
Hazard Scale: 0=Minimal, 1=Slight, 2=Moderate, 3=High, 4=Extreme, *=Chronic hazard

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Revision Information Not applicable.