



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 146 Industrial Park Road Sweetwater, TN 37874 USA
Telephone	(800) 995-5691
Facsimile	(800) 994-8561
Website	www.fluidtechllc.com
Email address	info@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	None.
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.

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

Flammability of the Product Non-flammable.

Auto-Ignition Temperature Not applicable.

Flash Points Not applicable.

Flammable Limits Not applicable.

Products of Combustion Not available.

Fire Hazards in Presence of Various Substances Not applicable.

Explosion Hazards in Presence of Various Substances Not available.

Fire Fighting Media and Instructions Not applicable.

Special Remarks on Fire Hazards	When heated to decomposition it emits acrid smoke and irritating fumes.
Special Remarks on Explosion Hazards	Not available.
Suitable extinguishing types	Water spray, foam, dry extinguishing media.
Non-suitable types for safety reason	Carbon dioxide, water jet.
Additional information	Avoid whirling up the material because of the danger of dust explosion.
Special protective equipment	Wear a self-contained breathing apparatus.
Further information	Contaminated extinguishing water must be disposed in accordance with regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Normal room ventilation. Breathing protection is recommended. Extremely 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. Breathing must be protected when large quantities are decanted without local exhaust ventilation. Avoid the formation and deposition of dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as acids. 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 in small quantity applications.
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

Not applicable.

General hygiene considerations

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
Physical state	Solid
Form	Granules
Color	White
Odor	Odorless
Odor threshold	Not applicable
pH	4.9 – 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	Not applicable
Vapor density	Not applicable
Relative density	Not available
Solubility	Insoluble, only capable of swelling.
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.

Polymerization Will not occur.

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.
Toxicity to fish	OECD Guideline 203 static. <i>Brachydanio rerio</i> /LC50 (96h): >100 mg/l
Aquatic invertebrates	OECD Guideline 202, part 1 static. <i>Daphnia magna</i> /EC50 (48h): >100 mg/l
Aquatic plants	OECD Guideline 201. <i>Desmodium subspicatum</i> /EC50 (72h): >100 mg/l
Microorganisms/Effect on activated sludge	The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Soil living organisms	OECD Guideline 207. <i>Eisenia foetida</i> /LC50: >1.000mg/Kg
Persistence and degradability	Not inherently biodegradable.
Bio accumulative 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. Do not discharge into waterways or sewer systems without proper authorization.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose/incinerate in sealed containers at licensed waste disposal site. Dispose/incinerate of
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	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 is dependent upon how the product is used. This code shall 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 hazardous.
IATA	Not regulated as hazardous.
IMDG	Not regulated as hazardous.
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.

TSCA 8(b) inventory Sodium bicarbonate

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

Other Classifications

WHMIS (Canada)

Not controlled under WHMIS (Canada).

DSCL (EEC)

This product is not classified according to the EU regulations. Not applicable.

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

Issue date

November 23, 2018

Revision date

February 22, 2022

Revision Information

Revision 1: Change of address for Fluid Tech LLC.
Revision 2: (1) Section 5 updated to clarify a potential of dust explosion, not an explosion hazard caused by FLUIDSAP 100. (2) Section 12 updated to include ecotoxicity category "Soil living organisms" and corresponding data.

Version #

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Further information

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

The information in the sheet was written based on the best knowledge and experience currently available in regard to the product and current legal requirements and standards.

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