

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Date of Issue: 03/24/2023

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Substance **Product Name:** Soltellus 2101G

CAS-No.: 94525-01-6

Synonyms: Sodium polyaspartate, Polyaspartic acid sodium salt

1.2. Intended Use of the Product

Use of the Substance/Mixture: None specified

1.3. Name, Address, and Telephone of the Responsible Party

Company

Lygos, Inc.

25821 Industrial Blvd

Suite 300

Hayward CA 94545

United States

(510) 356-0555

www.lygos.com

1.4. Emergency Telephone Number

	Emergency Number	:	VelocityEHS
			(800)255-3924 (North America)
			+1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification

Combustible Dust

2.2. Label Elements

GHS-US Labeling

Signal Word (GHS-US)	••	Warning
Hazard Statements (GHS-US)	••	May form combustible dust concentrations in air.
Supplemental Information		Avoid generating dust. Prevent dust accumulation (to minimize explosion hazard). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Name	Synonyms	Product Identifier	%	GHS US classification
Poly-(a,b)-DL-aspartic acid Sodium Salt	L-aspartic acid, homopolymer, sodium salt / Sodium polyaspartate / SODIUM POLYASPARTATE	(CAS-No.) 94525-01-6	100	Combustible Dust

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

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SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to cough, spit out, and blow nose to remove dust. Call a poison center, physician, or emergency medical service if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/Injuries After Inhalation: Dust may be harmful or cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause mechanical skin irritation.

Symptoms/Injuries After Eye Contact: May cause mechanical irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water fog, alcohol-resistant foam, or dry chemical. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible Dust.

Explosion Hazard: Dust explosion hazard in air.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Sodium oxides.

Other Information: Risk of dust explosion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Avoid breathing dust. Avoid prolonged contact with eyes, skin and clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Eliminate ignition sources first, then ventilate the area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Avoid generation of dust during clean-up of spills.

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Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Use only non-sparking tools. Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use water to suppress dust. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations. Do not use air pressure or dry methods to clean dust-covered surfaces. Use appropriate vacuum apparatus, or water plus a cleansing agent.

Precautions for Safe Handling: Avoid creating or spreading dust. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Avoid breathing dust. Avoid prolonged contact with eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Avoid creating or spreading dust. Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

None specified

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

8.2. Exposure Controls

Appropriate Engineering Controls	Ensure adequate ventilation, especially in confined areas. Use explosion-proof	
	equipment. Use local exhaust or general dilution ventilation or other suppression	
	methods to maintain dust levels below exposure limits. Power equipment should	
	be equipped with proper dust collection devices. It is recommended that all dust	
	control equipment such as local exhaust ventilation and material transport systems	
	involved in handling of this product contain explosion relief vents or an explosion	
	suppression system or an oxygen-deficient environment. Proper grounding	
	procedures to avoid static electricity should be followed. Suitable eye/body wash	
	equipment should be available in the vicinity of any potential exposure. Ensure all	
	national/local regulations are observed.	
Personal Protective Equipment	Gloves. Protective clothing. Protective goggles or glasses. Insufficient ventilation:	
	wear respiratory protection.	
Materials for Protective Clothing	: Chemically resistant materials and fabrics.	
Hand Protection	: Wear protective gloves.	
Eye and Face Protection	: Chemical safety goggles or safety glasses with side shields.	
Skin and Body Protection	: Wear suitable protective clothing.	
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, approved respiratory	
	protection should be worn. In case of inadequate ventilation, oxygen deficient	
	atmosphere, or where exposure levels are not known wear approved respiratory	
	protection.	
Other Information	: When using, do not eat, drink or smoke.	

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	:	Solid
Appearance	:	Light yellow
Odor	:	Not specified
Odor Threshold	:	No data available
рН	:	No data available
Evaporation Rate	:	No data available
Melting Point	:	No data available
Freezing Point	:	No data available
Boiling Point	:	No data available
Flash Point	:	No data available
Auto-ignition Temperature	:	No data available
Decomposition Temperature	:	No data available
Flammability (solid, gas)	:	Combustible dust
Vapor Pressure	:	No data available
Relative Vapor Density at 20°C	:	No data available
Relative Density	:	No data available
Solubility	:	Water: Soluble
Partition Coefficient: N-Octanol/Water	:	No data available
Viscosity	:	No data available
Dust deflagration index	:	23 bar·m/s

9.2. Other Information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7)

10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur. Dust explosion hazard in air.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition. Dust accumulation (to minimize explosion hazard).

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO2). Nitrogen oxides. Sodium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

Soltellus 2101G

LD50 Oral Rat > 5000 mg/kg

Skin Corrosion/Irritation: Not classified

pH: 8 - 10

Serious Eye Damage/Irritation: Not classified

pH: 8 - 10

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

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Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General	: Not classified.
Soltellus 2101G	
LC50 Fish 1	1000 mg/l (Exposure time: 96h) (Species: Scophthalamus maximus)
EC50 - Crustacea [1]	1792 mg/l (Exposure time: 48h) (Species: Daphnia pulex)
ErC50 (Algae)	1000 mg/l (Exposure time: 72h) (Species: Skeletonema costatum)

12.2. Persistence and Degradability

Soltellus 2101G	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Soltellus 2101G	
Bioaccumulative Potential	Not established.

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information	:	Avoid release to the environment.
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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Soltellus 2101G				
SARA Section 311/312 Hazard Classes	Physical hazard - Combustible dust			
L-Aspartic acid, homopolymer, sodium salt (94525-01-6)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active				
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance.			
	XU - XU - indicates a substance exempt from reporting under the			
	Chemical Data Reporting Rule, (40 CFR 711).			

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15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION					
Date of Preparation or Latest Revision	:	03/24/2023			
Other Information		This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR			
		1910.1200			

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)