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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identi	fier	
Product form	:	Substance
Trade name	:	Diverting Agent
Product code	:	1320
Chemical name	:	Polylactide Resin
CAS No	:	9051-89-2
1.2. Relevant iden	tified uses of the substand	e or mixture and uses advised against
Use of the substance/m	ixture :	Industrial/Professional
		Diverting Agent for multi-stage fracturing
Use advised against	:	None identified
1.3. Details of the	supplier of the safety data	sheet
DiverterPlus, LLC 281 Clarkson Road, Suite Ellisville, MO 63011	e 102	
Tel: 833-388-7587 Fax: 636-238-2101		
1.4. Emergency te	lephone number	
Emergency number	:	CHEMTREC (800) 424-9300 Outside USA: +1 703-527-3887 24 hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Combustible dust

2.2. Label elements

Labelling

: None
: Warning
Man factor constructible dust accounter the state
: May form combustible dust concentrations in air
: None

2.3. Other hazards

Other hazards not contributing to the classification	: Spills of this product present a serious slipping hazard.
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2.4. Unknown acute toxicity

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

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Name	Product identifier	%
Polylactide Resin	(CAS No) 9051-89-2	> 98

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute

Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

3.2. Mixture

Not applicable

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.		
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.		
First-aid measures after skin contact	: Rinse with plenty of water. If skin irritation occurs: Get medical advice/attention.		
First-aid measures after eye contact	: Flush eyes with water for several minutes. Get immediate medical advice/attention.		
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Obtain emergency medical attention if symptoms occur. May cause choking if swallowed.		
4.2. Most important symptoms and effects	s, both acute and delayed		
Symptoms/injuries after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause lower track respiratory irritation.		
Symptoms/injuries after skin contact	: Prolonged or repeated contact, may cause skin dryness.		
Symptoms/injuries after eye contact	: Contact with eyes may cause mechanical eye damage.		
Symptoms/injuries after ingestion	: May cause gastrointestinal blockage. Do not give laxatives.		

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: Firefighting measures			
5.1.	Extinguishing media		
Suital	ble extinguishing media	: Use fire-extinguishing media appropriate for surrounding materials. Foam. Dry powder. Carbon dioxide. Water spray.	
Unsu	table extinguishing media	: Not known	
5.2.	Special hazards arising from the	substance or mixture	
Fire h	azard	: The product is not flammable.	
Explo	sion hazard	 Avoid any processing such as grinding that may generate dust; fine dust dispersed in air in sufficient concentrations and the presence of an ignition source is a potential dust explosion hazard. 	
Other	hazrads	: During fire, gases hazardous to health may be formed.	
5.3.	Advice for firefighters		
Firefi	ghting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.	
Prote	ctive equipment for firefighters	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release measures			
6.1.	6.1. Personal precautions, protective equipment and emergency procedures		
Gene	ral measures	: Collect as much as possible in clean container for (preferably) re-use or disposal. Spills of this product present a serious slipping hazard. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure-controls/personal	

dispose according to local legislation.

protection. Avoid contact with eyes. Collect all waste in suitable and labelled containers and

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6.2. Environmental precautions

Avoid release to the environment. Do not allow large quantities, as are, to spread into the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Recover mechanically the product. Wet clean or vacuum up solids. Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Provide good ventilation in process area to prevent formation of dust. Keep container closed when not in use.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, inclu	iding any incompatibilities	
Technical measures	: Provide adequate ventilation.	

Storage conditions	: Store in a well-ventilated place. Store in a dry place. Store at temperature not exceeding 122°F/50°C.
Incompatible materials	: No additional information available

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Particulates not otherwise claissified (PNOC)		
ACGIH	ACGIH TLV (TWA) (mg/m ³)	10 mg/m ³ (inhalable partticulates)
ACGIH	ACGIH TLV (TWA) (mg/m ³)	3 mg/m ³ (respirable partticulates)
OSHA	OSHA Final PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust)
OSHA	OSHA Final PEL (TWA) (mg/m ³)	5 mg/m ³ (respirable fraction)

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

- : Ensure good ventilation of the work station. It is recommended that all dust control equipment such as local exhaust ventilation contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Use appropriately classifies electrical equipment.
- : Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



Materials for protective clothing

Hand protection

Eye protection Skin and body protection

- : Protective clothing and protective equipment materials must be suitable for the chemicals that may be contacted.
- : Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
- : Safety glasses.
- : Wear suitable protective clothing. Wear long sleeves.

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Respiratory protection	: When effective engineering controls are not feasible, or while they are being instituted, appropriate respirators shall be used. A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134). Use of dust filter are recommended.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Beads
Color	: White
Odor	: Odorless
Odor threshold	: Not applicable
рН	: Not applicable
Relative evaporation rate (butyl acetate=1)	: Not applicable
Melting point	: 302 - 356 °F (150 - 180 °C)
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: No data available
Auto-ignition temperature	: 730 °F (388 °C)
Decomposition temperature	: 482 °F (250 °C)
Flammability (solid, gas)	: No data available
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: Not applicable
Relative density	: 1.25 (water=1)
Solubility	: Negligible in water
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidising properties	: Not applicable
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Temperatures above 446 °F (230 °C). Prolonged exposure will cause polymer degradation.

10.5. Incompatible materials

Oxidizing agents, Strong bases

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10.6. Hazardous decomposition products

Thermal decomposition emits obnoxious and toxic fumes, Aldehydes, Carbon oxides.

SECTION 11: Toxicological information 11.1. Information on toxicological effects Route of exposure : Oral Acute toxicity : Not classified Skin corrosion/irritation : Not classified. Prolonged or repeated contact may cause dermatitis, skin irritation and skin dryness. Serious eye damage/irritation : Not classified. Product dust may be irritating to eyes. Resin particles, like other inert materials, are mechanically irritating to eyes. Respiratory or skin sensitization Not classified Germ cell mutagenicity : Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified. Inhalation may cause lower respiratory tract irritation. Specific target organ toxicity (repeated : Not classified exposure) Aspiration hazard : Based on physical properties, not likely to be an aspiration hazard. Other hazards : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. **SECTION 12: Ecological information** 12.1. Toxicity : The product is not considered harmful to aquatic organisms or to cause long-term adverse Ecology - general effects in the environment. 12.2. Persistence and degradability No additional information available 12.3. **Bioaccumulative potential** Not expected to bioaccumulate. 12.4. Mobility in soil No additional information available 12.5. Other adverse effects Effect on ozone layer : No additional information available

SECTION 13: Disposal considerations

Effect on the global warming

13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

: No additional information available

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Ecology - waste materials

: Should not be released into the environment. Do not contaminate ponds, waterways or ditches with chemical or used container. Contact manufacturer.

SECTION 14: Transport information

In accordance with DOT Not regulated for transport

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - NOTE: This product has NOT evaluated against the latest requirements of the California Proposition 65 to meet the safe harbor warning requirements introduced by The office of Environmental Health Hazards Assessment (OEHHA), during its OSHA hazards classification evaluation.

SECTION 16: Other information

Revision date	: 06/14/2019
Indication of changes	 1-Identification of the substance/mixture and of the company/undertaking 2-Hazards identification 4-First aid measures 5-Firefighting measures 6-Accidental release measures 7-Handling and storage 8-Exposure controls/personal protection 11-Toxicological information 15-Regulatory information
Other information	 Refer to NFPA 654, Standard for the Prevention of Fire and Dust explosions from the Manufctureing, Processing, and Handling of Combustible Particulate Solids, for safe handling. 1)The chemical manufacturer or importer shall label chemicals that are shipped in dust form, and present a combustible dust hazard in that form when used downstream, under paragraph (f)(1); 2) the chemical manufacturer or importer shipping chemicals that are in a form that is not yet a dust must provide a label to customers under paragraph (f)(4) if, under normal conditions of use, the chemicals are processed in a downstream workplace in such a way that they present a combustible dust hazard; and 3) the employer shall follow the workplace labeling requirements under paragraph (f)(6) where combustible dust hazards are present.

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