1306



Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 01/01/2018 Revision date: 06/14/2019 Printed: 07/22/2019 Version: 2.0

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

1.1. Product identifier

Product form : Substance
Trade name : Diverting Agent

Product code : 1306

Chemical name : Polylactide Resin CAS No : 9051-89-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : 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 102 Ellisville, MO 63011

Tel: 833-388-7587 Fax: 636-238-2101

1.4. Emergency telephone 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

Hazard pictograms : None
Signal word : Warning

Hazard statements : May form combustible dust concentrations in air

Precautionary statements : None

2.3. Other hazards

Other hazards not contributing to the : Spills of this product present a serious slipping hazard.

classification

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 acut 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, 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

Suitable extinguishing media : Use fire-extinguishing media appropriate for surrounding materials. Foam. Dry powder. Carbon

dioxide. Water spray.

Unsuitable extinguishing media : Not known

5.2. Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable.

Explosion 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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire.

Protective 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. Personal precautions, protective equipment and emergency procedures

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

dispose according to local legislation.

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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

producti

7.2. Conditions for safe storage, including 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/m³)	10 mg/m³ (inhalable partticulates)
ACGIH	ACGIH TLV (TWA) (mg/m³)	3 mg/m³ (respirable partticulates)
OSHA	OSHA Final PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
OSHA	OSHA Final PEL (TWA) (mg/m³)	5 mg/m³ (respirable fraction)

8.2. Exposure controls

Appropriate engineering controls

: 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.

Personal protective equipment

: Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



Materials for protective clothing

: Protective clothing and protective equipment materials must be suitable for the chemicals that may be contacted.

Hand protection

: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Eye protection

: Safety glasses.

Skin and body protection

: 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
pH : 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 : No data available Flash point : 730 °F (388 °C) Auto-ignition temperature Decomposition temperature : 482 °F (250 °C) Flammability (solid, gas) : No data available : Not applicable Vapor pressure Relative vapor density at 20 °C : Not applicable Relative density : 1.25 (water=1) Solubility : Negligible in water Log Pow : No data available : No data available Log Kow Viscosity, kinematic : Not applicable Viscosity, dynamic : Not applicable : No data available Explosive properties : Not applicable Oxidising properties 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

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 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

exposure)

: Not classified

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

: 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

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 Effect on the global warming : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations. Waste disposal recommendations

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.

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: 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

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

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