SDS no. J528
Version 1
Revision date 13/Nov/2013
Supercedes date

Safety Data Sheet
Soluble Ball Sealer J528

1. Identification of the substance/preparation and of the Company/undertaking

1.1 Product identifier

Product name Soluble Ball Sealer J528
Product code J528

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

Recommended Use Used as a fracturing additive in oilfield applications

Uses advised against None known.

1.3 Details of the supplier of the safety data sheet

Supplier
Schlumberger Oilfield Australia Pty Ltd
ABN: 74 002 459 225
ACN: 002 459 225
256 St. Georges Terrace, Perth WA 6000
SDS@slb.com

1.4 Emergency Telephone Number

Emergency telephone - (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, MiddleEastand Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to (EC) No. 1272/2008

Not a hazardous substance or mixture according to EC-No. 1272/2008

Health hazards

Environmental hazards

Physical Hazards

2.2 Label elements

Not a hazardous substance or mixture according to EC-No. 1272/2008
Hazard statements
No hazard from product as supplied

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Contains
Polylactide resin

Classification according to EU Directives 67 /548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

2.3 Other data

Not classified as PBT/vPvB by current EU criteria

Australian statement of hazardous/dangerous nature
Classified as Non-Hazardous according to the criteria of NOHSC.
NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

3.1 Substances

Component	EC-No.	CAS-No	Weight % - range	Classification (67/548)	Classification (Reg. 1272/2008)	REACH registration number
Polylactide resin	Polymer	9051-89-2	60-100	-	Not classified	No data available

3.2 Mixtures

4. First aid measures

4.1 Description of first-aid measures

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

Ingestion Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.

Skin contact Wash off immediately with soap and plenty of water. Seek medical attention if irritation occurs.

Eye contact Immediately flush eyes with water for 15 minutes while holding eyelids open. Get medical attention immediately if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin contact May cause skin irritation and/or dermatitis.

Eye contact May cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use extinguishing media appropriate for surrounding material, Carbon dioxide (CO_2), Water spray, fog or alcohol-resistant foam.

Extinguishing media which shall not be used for safety reasons
No information available.

5.2 Special hazards arising from the substance or mixture

Unusual fire and explosion hazards
None.

Hazardous combustion products
When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

5.3 Advice for firefighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear.

Special Fire-Fighting Procedures
Containers close to fire should be removed immediately or cooled with water, Cool fire-exposed containers using water spray.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment. See also section 8. If spilled, take caution, as material can cause surfaces to become very slippery. Remove all sources of ignition. Avoid dust formation.

6.2 Environmental precautions

Prevent further leakage or spillage. Do not allow spilled material to enter sewers, storm drains or surface waters.

Enviromental exposure controls
Do not allow material to contaminate ground water system.

6.3 Methods and materials for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

6.4 Reference to other sections

See section 13 for more information.

7. Handling and storage

7.1 Precautions for safe handling

Use only in area provided with appropriate exhaust ventilation. Avoid handling causing generation of dust. Remove all sources of ignition.

Hygiene measures
Use good work and personal hygiene practices to avoid exposure. Wash hands and face before breaks and immediately after handling the product. Remove contaminated clothing. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Provide appropriate exhaust ventilation at places where dust is formed.

Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatibles. Oxidizing agents Strong bases

7.3 Specific end uses

See Section 1.2.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits Contains no substances with occupational exposure limit values

Component	EU OEL	Austria	Australia	Denmark
Polylactide resin	Not determined	Not determined	Not determined	Not determined

Component	Finland	France	Germany	Hungary
Polylactide resin	Not determined	Not determined	Not determined	Not determined

Component	Ireland	Italy	Netherlands	Norway
Polylactide resin	Not determined	Not determined	Not determined	Not determined

Component	Poland	Portugal	Romania	Russia
Polylactide resin	Not determined	Not determined	Not determined	Not determined

Component	Spain	Switzerland	Turkey	UK
Polylactide resin	Not determined	Not determined	Not determined	Not determined

Component information

Kit components
No biological limit allocated

8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

Engineering measures to reduce exposure
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection Wear dust resistant safely goggles where there is a danger of eye contact.
Hand protection Wear chemical resistant gloves such as nitrile or neoprene.

Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required, Effective dust mask.
Skin and body protection	Wear appropriate personal protective clothing to prevent skin contact, Eye wash and emergency shower must be available at the work place.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	No information available
Odor	Odorless
Color	Green
Odor threshold	Not applicable

Property	**Values**	**Remarks**
pH	6 - 8	
pH @ dilution	No information available	
Melting/freezing point	150 - 230 °C	
Boiling point/range		
Flash point	No information available	
Evaporation rate (BuAc =1)		
Flammability (solid, gas)	Not Applicable	
Flammability Limits in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	No information available	
Bulk density	1.2 g/cm³	
Relative density		
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Autoignition temperature	> 300 °C	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Log Pow	Does not bioaccumulate	

Explosive properties	Not Applicable
Oxidizing properties	No information available

9.2 Other information

Pour point	No information available
Molecular weight	No information available
VOC content(%)	No information available
Density	No information available

10. Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization
Hazardous polymerization does not occur.

10.4 Conditions to avoid

Avoid dust formation.

10.5 Incompatible materials

Incompatible with oxidizing agents. Strong bases.

10.6 Hazardous decomposition products

When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product information Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact May cause irritation.

Skin contact May cause skin irritation and/or dermatitis.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute toxicity .

Component	LD50 Oral	LD50 Dermal	LD50 Inhalation
Polylactide resin	No data available		

Sensitization No information available.

Mutagenic effects This substance has no evidence of mutagenic properties.

Carcinogenicity This substance has no evidence of carcinogenic properties.

Reproductive toxicity This substance has no evidence of toxicity to reproduction.

Routes of exposure None known.

Routes of entry None known.

Specific target organ toxicity (single exposure) No information available.

Specific target organ toxicity (repeated exposure) No information available.

Aspiration hazard No hazard from product as supplied.

12. Ecological information

12.1 Toxicity

Ecotoxicity effects
Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Toxicity to algae
This product is not considered toxic to algae.

Toxicity to fish
Not considered toxic to fish.

Toxicity to daphnia and other aquatic invertebrates
Not considered toxic.

Component	Freshwater fish species data	Freshwater algae	Water flea data
Polylactide resin	No information available	No information available	No information available

12.2 Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

12.3 Bioaccumulative potential

Does not bioaccumulate.

12.4 Mobility in soil

Mobility
Soluble in water.

12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

12.6 Other adverse effects.

None known.

13. Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products	If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.
EWC Waste disposal No.	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: EWC waste disposal No: 06 01 99

14. Transport information

14.1 UN Number
Not regulated

14.2 Proper shipping name
Not regulated

14.3 Hazard class(es)

ADR/RID/ADN Hazard class	Not regulated

14.4 Packing group

ADR/RID/ADN Packing Group	Not regulated

14.5 Environmental hazard

Marine pollutant	No

14.6 Special precautions
Not Applicable

14.7 Transport in bulk according to MARPOL 73/78 and IBC Code
Not Applicable Please contact SDS@slb.com for info regarding transport in Bulk.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Australian Standard for the Uniform Scheduling of Drugs and Poisons
No Poison Schedule number allocated

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)].

National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004) 3rd Edition].

National Occupational Health and Safety Commission's Exposure Standards for Atmospheric Contaminants in the occupational Environment [NOHSC:1003 (1995)].

Safe Work Australia.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

ADG Code – Australian Dangerous Goods Code.

International inventories

USA (TSCA)	Complies
European Union (EINECS and ELINCS)	Complies
Canada (DSL)	Complies
Philippines (PICCS)	Does not Comply
Japan (ENCS)	Complies
China (IECSC)	Complies
Australia (AICS)	Complies
Korean (KECL)	Complies
New Zealand (NZIoC)	Complies

WHMIS Hazard Class

15.2 Chemical Safety Report

No information available

16. Other information

Supercedes date

Revision date 13/Nov/2013

Version 1

HMIS classification

Text of R phrases mentioned in Section 3

Not Applicable

Full text of H-Statements referred to under sections 2 and 3

No hazard from product as supplied

N/A - Not Applicable, N/D - Not Determined.

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