

A Schlumberger Company

Safety Data Sheet

POLYPAC* (All Grades)

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Product code	POLYPAC [*] (All Grades) 141381
Synonyms	POLYPAC* ELV, R, UL & POLYPAC* SUPREME R, UL
1.2 Relevant identified uses of the s	substance or mixture and uses advised against

Recommended Use

Fluid loss reducer. Viscosifier.

Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier M-I Drilling Fluids UK Limited Westhill Business Park Westhill AB32 6JL Aberdeenshire Scotland United Kingdom

+47 51577424

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, Middle East and 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

GHS Classification

Health hazards	Not classified

Environmental hazards Not classified

Physical Hazards Not classified

2.2 Label elements



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Signal word

None

Hazard Statements

This product is not classified as hazardous therefore no (H) hazard statements assigned.

Precautionary statements

This product is not classified as hazardous therefore has no (P) precautionary statements assigned.

Contains

Polyanionic cellulose

2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria Suspended dust may present a dust explosion hazard

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

Chemical Name	EC No	CAS No	Weight-%
Polyanionic cellulose	Listed	Proprietary	60-100

3.2 Mixtures

Not applicable

4. First Aid Measures

4.1 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	Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if irritation persists.
Eye Contact	Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if worn. Get medical attention if any discomfort continues.
4.2. Most important symptoms and	effects, both acute and delayed

General advice	The severity of the symptoms described will vary dependant of the concentration and the
	length of exposure. If adverse symptoms develop, the casualty should be transferred to



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hospital as soon as possible.

Symptoms	
Inhalation	Please see Section 11. Toxicological Information for further information.
Ingestion	Please see Section 11. Toxicological Information for further information.
Skin contact	Please see Section 11. Toxicological Information for further information.
Eye contact	Please see Section 11. Toxicological Information for further information.
4.3 Indication of any immediate	e medical attention and special treatment needed
Notes to physician	Treat symptomatically.

5. Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire.

Extinguishing media which must not be used for safety reasons None known.

5.2. Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

Dust may form explosive mixture in air.

Hazardous combustion products

Fire or high temperatures create: Carbon oxides (COx), Sodium oxides.

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.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Use personal protective equipment. See also section 8.

6.2 Environmental precautions

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to applicable federal,



state and local regulations.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for containment

Cover powder spill with plastic sheet or tarp to minimise spreading. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Take precautionary measures against static discharges. 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

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid dust formation. Keep away from heat and sources of ignition.

Hygiene Measures

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

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions	Ensure adequate ventilation. Keep airborne concentrations below exposure limits. Take precautionary measures against static discharges.
Storage precautions	Keep containers tightly closed in a dry, cool and well-ventilated place Suspended dust may present a dust explosion hazard Avoid dust formation Protect from moisture Strong oxidising agents
Storage class	Chemical storage.
Packaging materials	Use specially constructed containers only

8. Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits

NUI = Nuisance dust, TWA 4mg/m³ Respirable Dust, 10mg/m³ Total Dust. No biological limit allocated

Component Information

Chemical Name	Arabic	Australia	Egypt
Polyanionic cellulose	Not determined	Not determined	Not determined



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Chemical Name	India	Indonesian	Japan
Polyanionic cellulose	Not determined	Not determined	Not determined
Chemical Name	Kazakhstan	Kuwait	New Zealand
Polyanionic cellulose	10 mg/m ³ MAC	Not determined	Not determined
Chemical Name	Malaysia	Philippines	Russia
Polyanionic cellulose	Not determined	Not determined	10 mg/m ³ MAC
Chemical Name	Thailand	Vietnam	Turkey
Polyanionic cellulose	Not determined	Not determined	Not determined

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 Controls

Ensure adequate ventilation Mechanical ventilation or local exhaust ventilation is required.

Personal protective equipment	
Eye protection	Use eye protection according to EN 166, designed to protect against powders and dusts Safety glasses with side-shields Tightly fitting safety goggles
Hand protection	Wear gloves according to EN 374 to protect against skin effects from powders Use protective gloves made of: Nitrile Neoprene Frequent change is advisable
Respiratory protection	No personal respiratory protective equipment normally required In case of insufficient ventilation wear suitable respiratory equipment Half mask with a particle filter P2 (BS EN 143) At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.
Skin and body protection	Wear suitable protective clothing Eye wash and emergency shower must be available at the work place.
Hygiene Measures	Wash hands before eating, drinking or smoking Remove and wash contaminated clothing before re-use



8.2.3 Environmental exposure controls

Environmental exposure

Use appropriate containment to avoid environmental contamination See section 6 for more information

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties Solid **Physical state** Granules Powder Appearance Odour

Odourless



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Colour Odour threshold	White Not applicable	
Property pH pH @ dilution Melting / freezing point Boiling point/range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	Values_ Not applicable 6.5 - 8 No information available No information available No information available No information available Not applicable	Remarks @ 1% solution
Upper flammability limit Lower flammability limit Vapour pressure Vapour density Specific gravity Bulk density Relative density Water solubility Solubility in other solvents Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity log Pow	Not applicable Not applicable No information available 1.5 - 1.6 400 - 800 kg/m ³ No information available Soluble in water No information available No information available > 230°C / 446°F No information available No information available No information available No information available No information available Not determined	@ 25 °C
Explosive properties Oxidising properties	Suspended dust may pre None known	sent a dust explosion hazard
<u>9.2 Other information</u> Pour point Molecular weight VOC content(%)	No information available No information available None	

Comments

Density

The data listed above are typical physical and chemical properties and should not be construed as product specification.

No information available

10. Stability and Reactivity

10.1 Reactivity

Dust may form explosive mixture in air.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions

Hazardous polymerisation

Hazardous polymerisation does not occur.



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10.4 Conditions to avoid

Take precautionary measures against static charges. Avoid dust formation. Protect from moisture.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

See Section 5.2.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	
Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	Dust may cause mechanical irritation.
Skin contact	Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause stomach discomfort.
Unknown acute toxicity	Not applicable.

Toxicology data for the components

Chemical Name		LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyanionic cellulose		= 27000 mg/kg (Rat)	> 2 g/kg (Rabbit)	> 5800 mg/m³ (Rat) 4 h
Sensitisation	This product does not contain any components suspected to be sensitizing.			
Mutagenic effects	This product does not contain any known or suspected mutagens.			
Carcinogenicity	This p	roduct does not contain any k	nown or suspected carcinog	ens.
Reproductive toxicity	This p	roduct does not contain any k	nown or suspected reproduc	tive hazards.
Routes of exposure	Inhala	tion.		
Routes of entry	Inhala	tion.		
Specific target organ toxicity - Single exposure	Not cla	assified		
Specific target organ toxicity - Repeated exposure	Not cla	assified.		



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Aspiration hazard

Not applicable.

Other information

Key literature references and sources for data. See Section 16 for more information.

12. Ecological Information

12.1 Toxicity

The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Listed on PLONOR list of OSPAR

Toxicity to algae

This product is not considered toxic to algae.

Toxicity to fish

This product is not considered toxic to fish.

Toxicity to daphnia and other aquatic invertebrates

This product is not considered toxic to invertebrates.

Toxicology data for the components

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Polyanionic cellulose	No information available	No information available	No information available

12.2 Persistence and degradability

Product is biodegradable.

12.3 Bioaccumulative potential

Does not bioaccumulate.

12.4 Mobility

Mobility Soluble in water.

Mobility in soil No information available.

12.5 Results of PBT and vPvB assessment



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Not classified as PBT/vPvB by current EU criteria.

12.6 Other adverse effects.

None known.

12.7 Other information

Key literature references and sources for data. See Section 16 for more information.

13. Disposal considerations		
13.1 Waste treatment methods		
Waste from residues/unused products	Dispose of in accordance with local regulations.	
Contaminated packaging	Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal.	

14. Transport information

14.1. UN number Not regulated

14.2. UN proper shipping name

The product is not covered by international regulation on the transport of dangerous goods

14.3. Hazard class(es)	
ADR/RID/ADN/ADG Hazard class	Not regulated
IMDG Hazard class	Not regulated
ICAO Hazard class/division	Not regulated
	-

14.4 Packing group	
ADR/RID/ADN/ADG Packing Group	Not regulated
IMDG Packing group	Not regulated
ICAO Packing group	Not regulated

14.5 Environmental hazard No

14.6 Special precautions Not applicable

14.7 Transport in bulk according to Annex I/II of MARPOL 73/78 and the IBC Code 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

The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Australian Standard for the Uniform Scheduling of Drugs and Poisons No poisons schedule number allocated

New Zealand Hazard Classification Not classified

HSNO approval no. Not required.

Group number Not required.

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).

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U.(A) 310/2013] (CLASS Regulations) The Industry Code of Practice on Chemical Classification and Hazard Communication 2014 [P.U. (B) 128/2014] (ICOP)

International inventories

USA, Toxic Substances Control Act Complies inventory (TSCA) Canada (DSL) Complies **Philippines (PICCS)** Complies Inventory - Japan - Existing and Complies New Chemicals list China (IECSC) Complies Australia (AICS) Complies Korea (KECL) Complies Inventory - New Zealand - Inventory Complies of Chemicals (NZIoC)

16. Other Information



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Prepared by	Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Anne Karin (Anka) Fosse	
Supercedes Date:	28/Sep/2017	
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Version	3	
This SDS has been revised in the following section(s)	All sections No changes with regard to classification have been made.	

Key literature references and sources for data

www.ChemADVISOR.com Supplier National Chemical Inventories National regulatory information National occupational exposure limits

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