

Safety Data Sheet POLYSWELL*

1. Identification

1.1 Product identifier

Product name POLYSWELL*
Product code PID676

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

Recommended Use Lost circulation material.
Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier
M-I L.L.C.
P.O.Box 42842
Houston, TX 77242
www.miswaco.slb.com
Telephone: 1 281-561-1511

M-I SWACO, A Schlumberger Company
200 - 125, 9th Avenue SE
Calgary, Alberta T2G 0P6, Canada
Telephone: 1-780-962-8221

E-mail address SDS@slb.com

Prepared by
Global Regulatory Compliance - Chemicals (GRC - Chemicals)

1.4 Emergency Telephone Number

Emergency telephone (24 Hour) Asia Pacific +65 3158 1074, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, USA +1 281 561 1600, Canada +1 800 579 7421, Argentina: +54 11 5984 3690, Brazil : +55 11 3197 5891

2. Hazards Identification

2.1 Classification of the substance or mixture

GHS - Classification

Health hazards Not classified

Environmental hazards Not classified

Physical Hazards

Combustible dust

2.2 Label elements

Signal word
WARNING

Hazard Statements

May form combustible dust concentrations in air

Precautionary Statements

P240 - Ground or bond container and receiving equipment
P241 - Use explosion-proof electrical, ventilating, lighting, equipment
P243 - Take precautionary measures against static discharge

Hazards not otherwise classified

None known

Unknown acute toxicity Not applicable.

3. Composition/information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical Name | CAS No | Weight-% |
|------------------------------|-------------|----------|
| Anionic Acrylamide Copolymer | Proprietary | 60-100 |

Comments

The exact percentage (concentration) of composition has been withheld as a trade secret.
Proprietary component(s) in section 3 of this SDS does not/do not trigger application of trade secret exemption under Hazardous Materials Information Review Act (HMIRA). The proprietary component in this product contributes to combustible dust classification.

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 symptoms occur.

Eye Contact Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if present and easy to do. Continue rinsing. 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 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 medical attention and special treatment needed

Notes to physician Treat symptomatically

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Water Fog, Alcohol Foam, CO₂, Dry Chemical.

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

Combustible material. Suspended dust may present a dust explosion hazard.

Hazardous combustion products

Carbon oxides (CO_x), Nitrogen oxides (NO_x), Ammonia, Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3 Advice for firefighters

Special protective equipment and precautions 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.

Material becomes extremely slippery when wet.

Advice for non-emergency responders

Evacuate non-essential personnel.

Advice for emergency responders

Evacuate personnel to safe areas. Use non-slip safety shoes in areas where spills or leaks can occur. Wear respiratory protection. Keep people away from and upwind of spill/leak.

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

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

Methods for cleaning up

Do not flush with water. Sweep up and shovel into suitable containers for disposal. 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. Material becomes extremely slippery when wet.

Hygiene measures

Use good work and personal hygiene practices to avoid exposure. When using do not smoke, eat or drink. 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. Take precautionary measures against static discharges. Keep airborne concentrations below exposure limits.

Storage precautions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Protect from moisture. Avoid contact with: Oxidizing agents. Strong acids.

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.
Control as an ACGIH particulate not otherwise specified (PNOS): 10 mg/m³

(Inhalable); 3 mg/m³ (Respirable) and an OSHA particulate not otherwise regulated (PNOR): 15 mg/m³ (Total); 5 mg/m³ (Respirable).

Component Information

| Chemical Name | ACGIH TLV | OSHA PEL | Argentina - Occupational Exposure Limits - TWAs (CMPs) | Brazil - Occupational Exposure Limits - TWAs (LTs) | Mexico - Occupational Exposure Limits - TWAs (LMPE-PPTs) |
|------------------------------|----------------|----------------|--|--|--|
| Anionic Acrylamide Copolymer | Not determined | Not determined | Not determined | Not determined | Not determined |

IDLH (Immediately Dangerous to Life or Health)

This product contains substance(s) classified as Immediately Dangerous to Life or Health (IDLH) by the US National Institute for Occupational Safety and Health (NIOSH). The purpose of establishing an IDLH value is to ensure that the worker can escape from a given contaminated environment in the event of failure of the most protective respiratory protection equipment. In the event of failure of respiratory protection equipment every effort should be made to exit immediately.

| Chemical Name | IDLH (Immediately Dangerous to Life or Health) |
|------------------------------|--|
| Anionic Acrylamide Copolymer | Not applicable |

8.2 Exposure controls

A risk assessment is recommended to be performed by a qualified and trained personnel to analyze the worksite and recommends the appropriate controls such as engineering controls, work practice controls, and administrative controls as primary means of reducing employee exposure. When there is a remaining hazards after applying the primary controls, Personal Protective Equipment (PPE) must be used.

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.

Personal protective equipment

Eye protection

Tightly fitting safety goggles. Safety glasses with side-shields.

Hand protection

Use protective gloves made of: Nitrile Neoprene PVC Frequent change is advisable

Respiratory Protection

All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent. If exposed to airborne particles of this product use at least a NIOSH-approved N95 half-mask disposable or re-useable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or re-useable particulate respirator.

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.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|----------------|----------------|
| Physical state | Solid |
| Appearance | Powder Dust |
| Color | White |
| Odor | None |
| Odor threshold | Not applicable |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> |
|---|--|----------------|
| pH | No information available | |
| pH @ dilution | 5-8 | @ 5 g/L |
| Melting point | > 150 °C / > 302 °F | |
| Boiling point/range | Not applicable | |
| Flash point | Not applicable | |
| Evaporation rate (BuAc =1) | No information available | |
| Flammability | Not applicable | |
| Explosion limits: | | |
| Upper explosion limit | No information available | |
| Lower explosion limit | No information available | |
| Vapor pressure | No information available | |
| Relative Vapor Density | No information available | |
| Specific gravity | No information available | |
| Bulk density | No information available | |
| Water solubility | Insoluble in water Swells on contact with water. | |
| Solubility in other solvents | No information available | |
| Autoignition temperature | No information available | |
| Decomposition temperature | > 150°C / 302°F | |
| Kinematic viscosity | No information available | |
| Dynamic viscosity | No information available | |
| Partition Coefficient (n-octanol/water) | -2 | |
| Explosive properties | Suspended dust may present a dust explosion hazard | |
| Oxidizing properties | None known. | |

9.2 Other information

| | |
|---------------------------------|--------------------------|
| Pour point | No information available |
| Molecular weight | No information available |
| VOC content(%) | None |
| Density and/or Relative Density | 0.6 - 0.9 |

Comments

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

10. Stability and Reactivity

10.1 Reactivity

Combustible material. 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 polymerization

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Avoid dust formation. Protect from moisture. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static charges.

10.5 Incompatible materials

Oxidizing agents. Strong acids.

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.

LD50 Oral > 5000 mg/kg (rat) (Mixture)

LD50 Dermal > 5000 mg/kg (rat) (Mixture)

Toxicology data for the components

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------------------|-------------------|-------------------|-------------------|
| Anionic Acrylamide Copolymer | No data available | No data available | No data available |

| Chemical Name | IARC Group 1 or 2 | ACGIH - Carcinogens | OSHA listed carcinogens | NTP |
|------------------------------|-------------------|---------------------|-------------------------|-------------------|
| Anionic Acrylamide Copolymer | No data available | No data available | No data available | No data available |

Delayed and immediate effects and chronic effects from short and long term exposure

Sensitization This product does not contain any components suspected to be sensitizing.

Mutagenic effects This product does not contain any known or suspected mutagens.

Carcinogenicity Conclusive but not sufficient for classification.

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

Developmental toxicity Component substance is listed on California Proposition 65 as a developmental hazard.

| | |
|---|-----------------|
| Routes of Exposure | Inhalation. |
| Routes of entry | Inhalation. |
| Specific target organ toxicity - Single exposure | Not classified |
| Specific target organ toxicity - Repeated exposure | Not classified. |
| Aspiration hazard | Not applicable. |

12. Ecological Information

12.1 Toxicity

Toxicity to algae

IC50/Scenedesmus subspicatus/72 hrs > 100 mg/L (OECD201) - (Mixture).

Toxicity to fish

LC50/Danio rerio/96 hrs > 100 mg/L (OECD203) - (Mixture)

LC50/Oncorhynchus mykiss/96 hrs > 100 mg/L (OECD203) - (Mixture).

Toxicity to daphnia and other aquatic invertebrates

EC50/Daphnia magna/48 hrs > 100 mg/L OECD202) - (Mixture).

Toxicology data for the components

| Chemical Name | Toxicity to fish | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates |
|------------------------------|--------------------------|--------------------------|---|
| Anionic Acrylamide Copolymer | No information available | No information available | No information available |

12.2 Persistence and degradability

Not readily biodegradable.

12.3 Bioaccumulative potential

Does not bioaccumulate.

log Pow

-2

12.4 Mobility

Insoluble in water.

12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other adverse effects.

None known.

13. Disposal Considerations

13.1 Waste treatment methods

| | |
|-------------------------------|---|
| Disposal Method | Disposal should be made in accordance with federal, state and local regulations. |
| Contaminated packaging | Empty containers should be taken for local recycling, recovery or waste disposal. |

14. Transport information

14.1. UN number

| | |
|------------------------------------|---------------|
| UN No. (DOT) | Not regulated |
| UN No. (MT/ANTT) | Not regulated |
| UN No. (TDG) | Not regulated |
| UN/ID No. (ADR/RID/ADN/ADG) | Not regulated |
| UN No. (IMDG/ANTAQ) | Not regulated |
| UN No. (ICAO/ANAC) | Not regulated |
| UN No. (DPC) | 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)

| | |
|--|---------------|
| DOT Hazard class | Not regulated |
| ANTT Hazard class | Not regulated |
| TDG Hazard class | Not regulated |
| ADR/RID/ADN/ADG Hazard class | Not regulated |
| IMDG/ANTAQ Hazard class | Not regulated |
| ICAO/ANAC Hazard class/division | Not regulated |
| DPC Hazard class | Not regulated |

14.4 Packing group

| | |
|--------------------------------------|---------------|
| DOT Packing group | Not regulated |
| ANTT Packing group | Not regulated |
| TDG Packing group | Not regulated |
| ADR/RID/ADN/ADG Packing group | Not regulated |
| IMDG/ANTAQ Packing group | Not regulated |
| ICAO/ANAC Packing group | Not regulated |
| DPC Packing group | Not regulated |

14.5 Environmental hazard

| | |
|------------------|----|
| Marine pollutant | No |
|------------------|----|

14.6 Special precautions

Not applicable

15. Regulatory Information

International inventories

| | |
|----------------------------|-----------------|
| USA (TSCA) | Complies |
| Canada (DSL) | Complies |
| Philippines (PICCS) | Does not comply |
| Japan (ENCS) | Complies |
| China (IECSC) | Complies |
| Australia (AICS) | - |
| Korean (KECL) | Complies |
| New Zealand (NZIoC) | Complies |

Europe - REACH

All products supplied from the European Economic Area (EEA) are compliant with the REACH Regulation EC 1907/2006. For products supplied from the EEA, Schlumberger and/or its suppliers have pre-registered and is registering all of the substances that it and/or its suppliers manufactures in or imports into the EEA that are subject to Title II of the REACH Regulation. All products supplied from outside the EEA are subject to REACH only if imported into the EEA. The importer of the products must comply with REACH for each imported substance. Contact REACH@slb.com for REACH information.

IMPORTS, Canada

No import volume restrictions.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

| Chemical Name | SARA 302 / TPQs | SARA 313 | CERCLA RQ |
|------------------------------|------------------------|-----------------|------------------|
| Anionic Acrylamide Copolymer | N/A | N/A | N/A |

California Proposition 65

WARNING



This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

| Chemical Name | California Proposition 65 |
|------------------------------------|--|
| 2-Propenamid (impurity) 79-06-1 | developmental toxicity male reproductive toxicity carcinogen |

Canadian Classification

This Safety Data Sheet has been prepared in compliance with the Hazardous Products Regulations.

Brazil Regulation

This SDS was prepared in accordance with Brazil law ABNT NBR 14725:2014

Federal Police

Not determined

Army

Not determined

ANVISA Not determined
MTE (NR 15) No information available

16. Other Information

Supersedes date 19/Oct/2016

Revision date 19/Jan/2022

Version 10

This SDS has been revised in the following section(s) All sections. No changes with regard to classification have been made.

HMIS classification

| | |
|-----------------|---|
| Health | 0 |
| Flammability | 1 |
| Physical hazard | 0 |
| PPE | E |

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

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