

## Safety Data Sheet POLY-PLUS†

### 1. Identification

#### 1.1 Product identifier

**Product name** POLY-PLUS†  
**Product code** 10094

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

**Recommended Use** Shale control agent.  
**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

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

#### 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

##### 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.

**Unknown acute toxicity** 36% of the mixture consists of ingredient(s) of unknown toxicity.

**3. Composition/information on Ingredients**

**3.1 Substances**

Not Applicable

**3.2 Mixtures**

Component	CAS-No	Weight % - range
Petroleum distillates, hydrotreated light	64742-47-8	10 - 30
Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	1 - 5

**Comments**

The product contains other ingredients which do not contribute to the overall classification.

**4. First aid measures**

**4.1 First-Aid Measures**

<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Seek medical attention if irritation occurs.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Remove contact lenses. Promptly wash eyes with lots of water while lifting eye lids. Continue to rinse for at least 15 minutes. 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.

**Main symptoms**

<b>Inhalation</b>	Please see Section 11. Toxicological Information for further information.
<b>Ingestion</b>	Please see Section 11. Toxicological Information for further information.
<b>Skin contact</b>	Please see Section 11. Toxicological Information for further information.
<b>Eye contact</b>	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**

Use extinguishing media appropriate for surrounding material.

#### **Extinguishing media which shall not be used for safety reasons**

None known.

### 5.2 Special hazards arising from the substance or mixture

#### **Unusual fire and explosion hazards**

None known.

#### **Hazardous combustion products**

Carbon oxides (COx), Nitrogen oxides (NOx).

### 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

Use personal protective equipment. See also section 8.

### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

#### **Environmental exposure controls**

Avoid release to the environment.

### 6.3 Methods and materials for containment and cleaning up

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

#### **Methods for cleaning up**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. Do not breathe vapors or spray mist. Avoid spills and splashing during use.

**7.2 Conditions for safe storage, including any incompatibilities**

- Technical measures/precautions** Ensure adequate ventilation. Keep airborne concentrations below exposure limits.
- Storage precautions** Keep containers tightly closed in a dry, cool and well-ventilated place.
- Packaging material** Use specially constructed containers only.

**8. Exposure controls/personal protection**

**8.1 Control parameters**

Component	ACGIH TLV	OSHA PEL
Petroleum distillates, hydrotreated light	Not Determined	Not Determined
Alcohols, C11-14-iso, C13-rich, ethoxylated	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 measures to reduce exposure**

Ensure adequate ventilation.

**Personal protective equipment**

- Eye protection** It is good practice to wear goggles when handling any chemical. Tightly fitting safety goggles.
- Hand protection** Use protective gloves made of:., Be aware that liquid may penetrate the gloves. Frequent change is advisable.
- Respiratory protection** No personal respiratory protective equipment normally required In case of insufficient ventilation wear suitable respiratory equipment
- Skin and body protection** Wear suitable protective clothing, Provide eyewash station.
- 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** Liquid
- Appearance** Cloudy
- Color** White
- Odor** Faint hydrocarbon
- Odor threshold** Not applicable

Property	Values	Remarks
pH	6 - 8	
pH @ dilution		
Melting/freezing point		
Boiling point/range	100 °C / 212 °F	
Flash point	> 93 °C / 200 °F	PMCC
Evaporation rate (BuAc =1)	No information available	
Flammability (solid, gas)	Not Applicable	

<b>Flammability Limits in Air</b>	
Upper flammability limit	No information available
Lower flammability limit	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific gravity</b>	1.07 - 1.10
<b>Bulk density</b>	No information available
<b>Water solubility</b>	slightly soluble
<b>Solubility in other solvents</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	> 20.5 mm <sup>2</sup> /s @ 40 °C
<b>Dynamic viscosity</b>	No information available
<b>Log Pow</b>	Not determined

<b>Explosive properties</b>	Not Applicable
<b>Oxidizing properties</b>	None known.

**9.2 Other information**

<b>Pour point</b>	-29°C / -20°F
<b>Molecular weight</b>	No information available
<b>VOC content(%)</b>	None
<b>Density</b>	No information available

**10. Stability and reactivity****10.1 Reactivity**

No specific reactivity hazards associated with this product.

**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**

None known.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon oxides (CO<sub>x</sub>). Nitrogen oxides (NO<sub>x</sub>).

**11. Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Irritating to eyes.

**Skin contact** Prolonged skin contact may defat the skin and produce dermatitis.

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

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated light	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h
Alcohols, C11-14-iso, C13-rich, ethoxylated	No data available	No data available	No data available

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Petroleum distillates, hydrotreated light	No data available	No data available	No data available	No data available
Alcohols, C11-14-iso, C13-rich, ethoxylated	No data available	No data available	No data available	No data available

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

**Mutagenic effects** This substance has no evidence of mutagenic properties.

**Carcinogenicity** This substance has no evidence of carcinogenic properties.

**Reproductive toxicity** None known.

**Developmental toxicity** Not known to cause birth defects or have a deleterious effect on a developing fetus.

**Routes of exposure** Skin contact. Eye contact.

**Routes of entry** No route of entry noted.

**Specific target organ toxicity (single exposure)** Not classified

**Specific target organ toxicity (repeated exposure)** Not classified.

**Aspiration hazard** No hazard from product as supplied.

## 12. Ecological information

### 12.1 Toxicity

**Toxicity to algae**  
See component information below.

**Toxicity to fish**  
See component information below.

**Toxicity to daphnia and other aquatic invertebrates**  
See component information below.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates, hydrotreated light 64742-47-8 ( 10 - 30 )	2.2 mg/L LC50 (Lepomis macrochirus) = 96 h 45 mg/L LC50 (Pimephales promelas) = 96 h 2.4 mg/L LC50 (Oncorhynchus mykiss) = 96 h	No information available	4720 mg/L LC50 (Den-dronereides heteropoda) = 96 h
Alcohols, C11-14-iso, C13-rich, ethoxylated 78330-21-9 ( 1 - 5 )	No information available	No information available	No information available

**12.2 Persistence and degradability**

No product level data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No information available.

**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**

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

**14. Transport information**

**14.1 UN Number**

Not regulated	
<b>UN No. (DOT)</b>	Not regulated
<b>UN/ID No. (ADR/RID/ADN/ADG)</b>	Not regulated
<b>UN No. (IMDG)</b>	Not regulated
<b>UN No. (ICAO)</b>	Not regulated

**14.2 Proper shipping name**

Not regulated for transportation by DOT, TDG, IMDG and ICAO/IATA.

**14.3 Hazard class(es)**

<b>DOT Hazard class</b>	Not regulated
<b>ADR/RID/ADN/ADG Hazard class</b>	Not regulated
<b>IMDG Hazard class</b>	Not regulated
<b>ICAO Hazard class/division</b>	Not regulated

**14.4 Packing group**

<b>DOT Packing group</b>	Not regulated
<b>ADR/RID/ADN/ADG Packing group</b>	Not regulated
<b>IMDG Packing group</b>	Not regulated
<b>ICAO Packing group</b>	Not regulated

**14.5 Environmental hazard**

No

**14.6 Special precautions**

Not Applicable

**15. Regulatory information**

**International inventories**

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

**U.S. Federal and State Regulations**

**SARA 311/312 Hazard Categories**

Immediate (acute) health hazard.

Component	SARA 302 / TPQs	SARA 313	CERCLA RQ
Petroleum distillates, hydrotreated light	N/A	N/A	N/A
Alcohols, C11-14-iso, C13-rich, ethoxylated	N/A	N/A	N/A

**State Comments**

Proposition 65: This product is not known to contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer and/or reproductive toxicity at levels that are expected to pose a significant risk under anticipated use conditions.

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**16. Other information**

<b>Supersedes date</b>	05/Jun/2014
<b>Revision date</b>	29/Jul/2015
<b>Version</b>	10
<b>The following sections have been revised:</b>	All sections. Format changes.

**HMIS classification**

Health	0
Flammability	1
Physical hazard	0
PPE	B



†A mark of M-I L.L.C.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.