SDS no. PID12106

Version 9

Revision date 10/Oct/2016 Supersedes date 14/Oct/2015



Safety Data Sheet PLATINUM PAC*

1. Identification

1.1 Product identifier

Product name PLATINUM PAC*

Product code PID12106

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

Recommended Use Drilling fluid additive. Fluid loss reducer.

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 sdsmi@slb.com

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

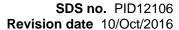
2.1 Classification of the substance or mixture

GHS - Classification

Health hazards Not classified

Environmental hazards Not classified

Physical Hazards





Combustible dust

2.2 Label elements

Signal word

WARNING

Hazard statements

H232 - May form combustible dust concentrations in air

Precautionary statements

P240 - Ground/bond container and receiving equipment

P243 - Take precautionary measures against static discharge

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment

Unknown acute toxicity 0% 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
Sodium carboxymethylcellulose	9004-32-4	60 - 100

Comments

The product contains other ingredients which do not contribute to the overall classification. The exact percentage (concentration) of composition has been withheld as a trade secret

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. Seek medical attention if irritation occurs.

Skin contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention immediately if symptoms occur.

Eye contact Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses.

Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

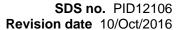
4.2 Most important symptoms and effects, both acute and delayed

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





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 shall not be used for safety reasons

None known.

5.2 Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

Suspended dust may present a dust explosion hazard.

Hazardous combustion products

Carbon oxides (COx).

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. Evacuate personnel to safe areas. Use personal protective equipment. See also section 8. If spilled, take caution, as material can cause surfaces to become very slippery.

6.2 Environmental precautions

As local regulations may vary; all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations.

Large spills released to the environment may disturb the natural chemical balance of soil/fresh water.

Environmental exposure controls

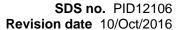
Local authorities should be advised if significant spillages cannot be contained.

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. After cleaning, flush away traces with water. Material becomes slippery when wet. Use caution if wet. Avoid dust formation. Powdered material may form explosive dust-air mixtures. Take precautionary measures against static discharges. Use non-sparking tools and equipment.

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. Fine dust dispersed in air may ignite. Avoid static electricity build up with connection to earth.

Hygiene measures

Use good work and personal hygiene practices to avoid exposure. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Ensure adequate ventilation. Provide appropriate exhaust ventilation at places where dust

is formed. Keep airborne concentrations below exposure limits.

Storage precautions Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly

closed in a dry, cool and well-ventilated place. Prevent dust cloud

8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits

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	ACGIH TLV	OSHA PEL	
Sodium carboxymethylcellulose	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

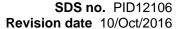
Eye protection

It is good practice to wear goggles when handling any chemical. Tightly fitting safety goggles.

Hand protection Respiratory protection Wear chemical resistant gloves such as nitrile or neoprene.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust) 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 mist/aerosol of this product, use at least a NIOSH-approved N95 half-mask disposable or re-usable particulate respirator. In work environments containing





oil mist/aerosol, use at least a NIOSH-approved P95 half-mask disposable or reuseable

particulate respirator. If exposed to vapors from this product use a NIOSH/MSHA-approved

PMCC

respirator with an Organic Vapor cartridge.

Skin and body protection Wear suitable protective clothing.

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 stateSolid powderAppearanceOpaqueColorOff-white - TanOdorMild OdorlessOdor thresholdNot applicable

<u>Property</u> <u>Values</u> <u>Remarks</u>

рΗ

pH @ dilution 6.5-8.0 @ 1% in H2O

Melting/freezing point

Boiling point/range No information available

Flash point Does not flash

Evaporation rate (BuAc =1) No information available

Flammability (solid, gas) Not Applicable

Flammability Limits in Air

Upper flammability limit
Lower flammability limit
No information available
No information available

Vapor pressure0 mmHgVapor densityNot applicableSpecific gravity1.5 - 1.6

Bulk density
Water solubility
Solubility in other solvents
Autoignition temperature
Decomposition temperature
Kinematic viscosity
No information available

Log Pow Not determined

Explosive propertiesNot Applicable **Oxidizing properties**None known.

9.2 Other information

Pour pointNo information availableMolecular weightNo information available

VOC content(%) None

Density No information available

10. Stability and reactivity

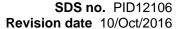
10.1 Reactivity

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.

Hazardous Reactions

None known.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon oxides (COx).

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and

cough.

Eye contact Dust may cause mechanical irritation.

Skin contact Repeated exposure may cause skin dryness or cracking.

Ingestion Irritant; may cause pain or discomfort to mouth, throat and stomach.

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium carboxymethylcellulose	= 27000 mg/kg (Rat)	> 2 g/kg (Rabbit)	> 5800 mg/m³ (Rat) 4 h

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Sodium carboxymethylcellulose	No data available	No data available	No data available	No data available

Sensitization Not classified.

Mutagenic effects This substance has no evidence of mutagenic properties.

Carcinogenicity This substance has no evidence of carcinogenic properties.

Reproductive toxicity None known.

Developmental toxicityNot known to cause birth defects or have a deleterious effect on a developing fetus.

Routes of exposure Inhalation. Skin contact. Eye contact.

Routes of entry None known.

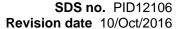
Specific target organ toxicity

(single exposure)
Specific target organ toxicity

(repeated exposure)

Not classified

Not classified.





Aspiration hazard Not classified.

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
			aqualic invertebrates
Sodium carboxymethylcellulose	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 substance is not considered to be persistent, bioaccumulating or toxic (PBT) This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other adverse effects.

None known. Check for additional information in sect. 7.

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)
UN No. (TDG)
Not regulated
Not regulated
Not regulated
Not regulated





UN No. (IMDG) Not regulated UN No. (ICAO) Not regulated

14.2 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
TDG Hazard class
ADR/RID/ADN/ADG Hazard class
IMDG Hazard class
ICAO Hazard class/division
Not regulated
Not regulated
Not regulated
Not regulated

14.4 Packing group

DOT Packing group
TDG Packing group
ADR/RID/ADN/ADG Packing group
IMDG Packing group
ICAO Packing group
Not regulated
Not regulated
Not regulated
Not regulated

14.5 Environmental hazard

Nο

14.6 Special precautions

Not Applicable

15. Regulatory information

International inventories

USA (TSCA)	Complies
Canada (DSL)	Complies
European Union (EINECS and ELINCS)	Complies
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

Fire Hazard (Combustible Dust)

SARA 302/304, 313, CERCLA RQ, California Proposition 65

Note: If no components are listed below, this product is not subject to the referenced SARA and CERCLA regulations and is not known to contain a Proposition 65 listed chemical at a level that is expected to pose a significant risk under anticipated use conditions.

Component	SARA 302 / TPQs	SARA 313	CERCLA RQ
Sodium carboxymethylcellulose	N/A	N/A	N/A





SDS no. PID12106 Revision date 10/Oct/2016

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.

16. Other information

Supersedes date 14/Oct/2015

Revision date 10/Oct/2016

Version 9

The following sections have been

revised:

2. Hazards Identification 3. Composition/information on Ingredients 11. Toxicological

information 15. Regulatory Information Section 16: Other information.

HMIS classification

Health 0
Flammability 1
Physical hazard 0
PPE E

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

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.

^{*}A mark of M-I L.L.C., a Schlumberger Company