



MPL Products
26 Baddesley Way
Canning Vale, Western Australia
Australia, Post Code – 6155
ph: +61421837661
email: mplexim61@gmail.com

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: **DRILLING STARCH HIGH TEMPERATURE**
APPLICATION: FLUID LOSS CONTROL

SUPPLIER: MPL PRODUCTS
ADDRESS: 26 BADDESLEY WAY, CANNING VALE, WESTERN AUSTRALIA 6155
CONTACT NO: +61 421837661
EMAIL: mplexim61@gmail.com

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION AND LABEL ELEMENTS

| | |
|-----------------------------|---|
| Category: | Combustible Dust (OSHA Defined) |
| Signal Word(s): | Warning |
| Hazard Statement(s): | May form combustible dust concentrations in air |
| Pictogram(s): | None |
| Precautionary Statement(s): | None |

EMERGENCY OVERVIEW

Warning! Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.
May produce a nuisance dust which may mechanically irritate the respiratory tract and eyes.

HMIS CLASSIFICATION

| | |
|------------------|---|
| Health Hazard: | 0 |
| Fire Hazard: | 1 |
| Physical Hazard: | 0 |

NFPA RATING

| | |
|-----------------|------|
| Health Hazard: | 0 |
| Fire Hazard: | 1 |
| Fire Hazard: | 0 |
| Special Hazard: | None |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS Number | Common Name/Synonyms | Chemical Name | % by Wt |
|------------|----------------------|----------------|---------|
| 9057-07-02 | Modified Starch | Pre Gel Starch | 90-94% |
| 7732-18-5 | Moisture | Water | 6 -10 % |



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4. FIRST AID MEASURES

INHALATION: Move to open area where fresh air available, get medical attention

SKIN CONTACT: Wash with water

EYE CONTACT: Wash with clean water. If symptoms persist, get medical attention

INGESTION: Rinse mouth with water. If symptoms persist, get medical attention

5. FIREFIGHTING MEASURES

FIRE EXTINGUISHING MEDIA: Water

UNUSUAL FIRE/EXPLOSION HAZARDS, SPECIAL FIRE-FIGHTING PROCEDURES: This product is a combustible dust and as such is a potential fire hazard/dust explosion hazard. Avoid creation of airborne dust. Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Practice good house-keeping to prevent dust accumulation on overheads and equipment. Avoid sparks, flames, and sources of static electricity.

DECOMPOSITION PRODUCTS: CO₂, H₂O, and typical combustion by-products.

PROTECTIVE EQUIPMENT: Self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

PROCEDURE FOR RELEASE OR SPILL: Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Non sparking tools should be used. Wear NIOSH approved dust mask and clean up using methods that minimize the formation of airborne dust. See section XIII for disposal considerations.

NEUTRALIZING CHEMICALS: Not required

7. HANDLING AND STORAGE

HANDLING: Minimize the creation of airborne dust. Practice good housekeeping in handling areas to ensure that dust does not accumulate on surfaces. Ensure starch handling systems and electrical equipment are designed and maintained in accordance with OHSAS, and other standards/regulations. Pneumatic conveying systems should be constructed of electrically conductive materials and properly grounded. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

STORAGE: Practice good housekeeping in storage areas. Store away from heat, sparks, or other flame sources.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

OSHA PEL: Nuisance Dust: 5 mg/m³ (respirable dust), 15 mg/m³ (total dust)
ACGIH (GUIDELINE): Particles Not Otherwise Specified [PNOS]: 3 mg/m³ (respirable), 10 mg/m³ (inhalable)

VENTILATION: Use appropriate local exhaust ventilation. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

EYE PROTECTION: Recommend safety glasses with side shields as good industrial hygiene practice.

RESPIRATORY PROTECTION: Wear NIOSH approved dust mask in situations where airborne concentrations may exceed the OSHA PEL for nuisance dusts.

SKIN PROTECTION: Gloves are recommended as good industrial hygiene practice.

COMBUSTIBLE DUST: Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------|---------------------------|------------------------|-----------------------------------|
| APPEARANCE: | White to off-white powder | EXPLOSIVE LIMITS: | See Dust Explosion Hazard Summary |
| ODOUR: | Neutral Odour | VAPOUR PRESSURE: | N/A |
| ODOUR THRESHOLD: | Not determined | VAPOUR DENSITY: | N/A |
| pH: | N/A | RELATIVE DENSITY: | 1.5 – 1.6 |
| MELTING POINT: | N/A | SOLUBILITY(IES): | 0-7% in cold water |
| FREEZING POINT: | N/A | PARTITION COEFFICIENT: | |
| BOILING POINT: | N/A | (N-OCTANOL/WATER): | N/A |
| BOILING RANGE: | N/A | AUTO-IGNITION TEMP: | 330-520 deg C |
| FLASH POINT: | N/A | DECOMPOSITION RATE: | Not determined |
| EVAPORATION RATE: | N/A | VISCOSITY: | N/A |
| FLAMMABILITY: | Combustible Dust | | |

DUST EXPLOSION HAZARD SUMMARY (Estimated, based on similar materials)

| | | | |
|------------------------------------|------------------|-----------------------------|--------------|
| Dust Class: | ST1 | KSt (bar – m/s): | 128-158 |
| Pmax (bar): | 9.7-10.2 | MIE (mJ): | 300 |
| MEC (g/m ³): | 60 | % Combustible: | >95% |
| Autoignition Temp, MIT Cloud (oC): | 330-520 | Dust Layer Flammability: | Class 2 |
| Autoignition Temp, MIT Layer (oC): | 380-450 | Self-heating: | Not expected |
| Resistivity(Ohm): | >10 ³ | Particle Size Distribution: | 10-40 micron |
| Chargeability: | Yes | Moisture Content: | 10-12.5% |



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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: Store away from heat, sparks, or other flame sources.

INCOMPATIBLE MATERIALS: Strong oxidizers

DECOMPOSITION PRODUCTS: CO₂, H₂O, and typical combustion by-products.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC):

INHALATION: This product can produce a nuisance dust which may irritate the respiratory tract.

Avoid prolonged or repeated inhalation of dust.

SKIN CONTACT: No hazard.

SKIN ABSORPTION: No hazard.

EYE CONTACT: Particulates may scratch eye surfaces and cause mechanical irritation.

INGESTION: Low hazard for typical industrial handling.

ACUTE TOXIC TEST RESULTS:

LD50: Rat Oral > 5000 mg / kg on mouse

LC50: Fish Oral > 200 mg/kg on Fish

CARCINOGENICITY: This material is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or OSHA.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY CLASSIFICATION: N/A

13. DISPOSAL CONSIDERATIONS

WASTE CLASSIFICATION: Unused product and packaging do not exhibit a characteristic of and are not listed as EPA hazardous waste. Consult state and local regulations for local requirements.

DISPOSAL METHOD: Prior to disposal, all disposal procedures should be reviewed with state and local regulatory agencies. If local approval is obtained, small quantities may be sent to local landfill or washed to sanitary sewer. Larger quantities may require special waste authorizations or controlled release to sanitary sewer.



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14. TRANSPORT INFORMATION

DOT (US): Not regulated.

15. REGULATORY INFORMATION

TSCA: All ingredients/components are listed on the TSCA registry.

SUPERFUND AMENDMENT AND REAUTHORIZATION ACTION OF 1986 (SARA, TITLE III):

SARA 302: No ingredients/components are subject to the reporting requirements of SARA 302.

SARA 304: No ingredients/components are subject to the reporting requirements of SARA 304.

SARA 311/312 Physical and Health Hazards:

| | |
|--------------------|------------------------|
| Fire: | Yes (Combustible Dust) |
| Pressure: | No |
| Reactivity: | No |
| Immediate: | No |
| Delayed (Chronic): | No |

SARA 313: No ingredients/components above threshold (De Minimis) reporting levels.

CERCLA REPORTABLE QUANTITY (RQ): No ingredients/components have a CERCLA RQ

16. OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer a warranty against patent infringement.

MPL Products reserves the right to refuse shipment of this material to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such a demonstration may require on-site inspection of any or all storage, processing, packaging, and other handling systems that come in contact with it. Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product.