

## SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **STAFLO EXLO SUPREME**

OTHER MEANS OF IDENTIFICATION: Sodium carboxymethyl cellulose: PAC

RECOMMENDED USE: Oilwell drilling fluid additive

RESTRICTIONS ON USE: None

SUPPLIER IDENTIFIER: **Prairie Mud Service**  
**738 6th Street**  
**Estevan, SK S4A 1A4**  
**306-634--3411**

EMERGENCY PHONE NUMBER: 306-634-3411

## SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Combustible Dust – Category 1

LABEL SYMBOLS: Not applicable

SIGNAL WORD: Warning

HAZARD STATEMENTS: May form combustible dust concentrations in air

OTHER HAZARDS: None

**Prevention**  
Avoid creating dust clouds during use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools.

**Response**  
In case of fire: Use CO<sub>2</sub>, dry chemical or foam for extinction.

**Storage**  
Store in closed containers in a dry place.

**Disposal**  
Dispose of contents/container in accordance with local, provincial or federal regulations.

PRECAUTIONARY STATEMENTS:

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME                  | CAS NUMBER | CONCENTRATION   |
|--------------------------------|------------|-----------------|
| Sodium carboxymethyl cellulose | 9004-32-4  | 97 – 100% (w/w) |

## SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Brush away excess material and wash with water. If irritation develops, obtain medical attention.

EYE CONTACT: Immediately flush with gently flowing warm water particles are removed. If irritation persists, obtain medical attention.

INGESTION: Rinse mouth with water. Drink 1 to 2 glasses of water. If symptoms develop obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.

|                                                  |                                                                                                                                                            |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INHALATION:                                      | Move to fresh air. Apply oxygen or artificial respiration if required. Obtain immediate medical attention if breathing difficulties or distress continues. |
| MOST IMPORTANT SYMPTOMS / EFFECTS:               | No known effects.                                                                                                                                          |
| IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT: | Treat symptomatically.                                                                                                                                     |

## SECTION 5: FIRE-FIGHTING MEASURES

|                                             |                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SUITABLE EXTINGUISHING MEDIA:               | Carbon dioxide, dry chemical, water spray or foam.                                                                                                                                                                                                                                       |
| UNSUITABLE EXTINGUISHING MEDIA:             | Not available.                                                                                                                                                                                                                                                                           |
| SPECIFIC FIRE HAZARDS:                      | May form an explosive dust/air mixture in the presence of an ignition source.<br>Dust explosion class: St1<br>Dust deflagration index (Kst): <200 m.b_/s<br>Explosive properties: Not explosive<br>Minimum ignition energy: >2300 mJ (with induction)<br>May burn under fire conditions. |
| HAZARDOUS COMBUSTION PRODUCTS:              | Oxides of carbon.                                                                                                                                                                                                                                                                        |
| SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS: | Self-contained breathing apparatus required for fire-fighting personnel. Move from fire area if possible.                                                                                                                                                                                |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Eliminate ignition sources. Non-sparking tools should be used as dust/air mixtures may explode violently. Forms slippery surfaces when wet.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect spilled material by vacuum if possible to avoid generation of dust. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Wash spill area with water until non-slippery.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing dust. Avoid creating dust cloud during handling. Use only in a well ventilated area.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry area away from incompatible materials. Keep away from heat and sources of ignition. Dust generated in handling of this product can be explosive if sufficient quantities are mixed in air in which case ignition sources should be avoided. Slippery when wet.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| EXPOSURE LIMITS:      | Not available.                                                                                                                         |
| ENGINEERING CONTROLS: | Use local exhaust ventilation, process enclosure or other engineering controls as required to maintain dust concentration below TLV's. |

**PERSONAL PROTECTIVE MEASURES**

|                                       |                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| RESPIRATORY PROTECTION:               | Respiratory protection should be worn when there is a potential to exceed exposure limit requirements or guidelines. |
| PROTECTIVE GLOVES:                    | Not required.                                                                                                        |
| EYE PROTECTION:                       | Safety glasses with side-shields or chemical goggles.                                                                |
| OTHER PROTECTIVE EQUIPMENT (SPECIFY): | Ensure eye-wash station and emergency shower are available.                                                          |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|                                  |                               |
|----------------------------------|-------------------------------|
| APPEARANCE:                      | Off-white powder              |
| ODOUR:                           | Odourless                     |
| ODOUR THRESHOLD:                 | Not applicable                |
| pH:                              | 6 – 8.5 (1% aqueous solution) |
| MELTING POINT / FREEZING POINT:  | Not available                 |
| BOILING POINT / RANGE:           | Not available                 |
| FLASH POINT:                     | Not applicable                |
| EVAPORATION RATE:                | Not available                 |
| FLAMMABILITY:                    | Combustible solid             |
| FLAMMABILITY / EXPLOSIVE LIMITS: | Not available                 |
| VAPOUR PRESSURE:                 | Not available                 |
| VAPOUR DENSITY:                  | Not available                 |
| RELATIVE DENSITY:                | 1.5                           |
| SOLUBILITY:                      | Soluble in water; forms gel   |
| PARTITION COEFFICIENT:           | Not available                 |
| AUTO-IGNITION TEMPERATURE:       | 170°C (Method: EN 15188)      |
| DECOMPOSITION TEMPERATURE:       | Not available                 |
| VISCOSITY:                       | Not available                 |

**SECTION 10: STABILITY AND REACTIVITY**

|                                     |                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------|
| REACTIVITY:                         | No information available                                                                                  |
| CHEMICAL STABILITY:                 | Stable under normal conditions                                                                            |
| POSSIBILITY OF HAZARDOUS REACTIONS: | Polymerization will not occur                                                                             |
| CONDITIONS TO AVOID:                | Keep away from open flames, hot surfaces and sources of ignition. Dust may form explosive mixture in air. |
| INCOMPATIBLE MATERIALS:             | Keep away from strong oxidizers.                                                                          |
| HAZARDOUS DECOMPOSITION PRODUCTS:   | No information available.                                                                                 |

**SECTION 11: TOXICOLOGICAL INFORMATION**

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| PRODUCT TOXICITY: | LD50 (oral, rat) > 5000 mg/kg                                  |
| SKIN CONTACT:     | May cause drying.                                              |
| EYE CONTACT:      | May cause slight irritation.                                   |
| INGESTION:        | No adverse effects expected from incidental ingestion.         |
| INHALATION:       | High dust levels may cause upper respiratory tract irritation. |
| CARCINOGENICITY:  | Not listed by IARC, NTP, ACGIH or OSHA.                        |

|                        |                                               |
|------------------------|-----------------------------------------------|
| TERATOGENICITY:        | Not toxic based on available information.     |
| REPRODUCTIVE TOXICITY: | Not toxic based on available information.     |
| MUTAGENICITY:          | Not mutagenic based on available information. |
| CHRONIC TOXICITY:      | No information available.                     |
| TARGET ORGAN EFFECTS:  | No information available.                     |

## SECTION 12: ECOLOGICAL INFORMATION

|                                |                                     |
|--------------------------------|-------------------------------------|
| ECOTOXICITY:                   | LC50 > 100 mg/L/96 hr (danio rario) |
| PERSISTENCE AND DEGRADABILITY: | Inherently biodegradable.           |
| BIOACCUMULATIVE POTENTIAL:     | Not likely to bioaccumulate.        |
| MOBILITY IN SOIL:              | No information available.           |
| OTHER ADVERSE EFFECTS:         | No information available.           |

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose/incinerate in accordance with federal, state and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal.

## SECTION 14: TRANSPORTATION INFORMATION

|                       |                |
|-----------------------|----------------|
| UN NUMBER:            | Not applicable |
| PROPER SHIPPING NAME: | Not applicable |
| CLASS:                | Not applicable |
| PACKING GROUP:        | Not applicable |
| IMDG HAZARDS:         | Not applicable |
| BULK TRANSPORT:       | Not applicable |
| SPECIAL PRECAUTIONS:  | Not applicable |

## SECTION 15: REGULATORY INFORMATION

|              |                                                    |
|--------------|----------------------------------------------------|
| DSL:         | On the DSL.                                        |
| WHMIS CLASS: | Not controlled                                     |
| TSCA:        | All ingredients are listed or exempt from listing. |

## SECTION 16: OTHER INFORMATION

|                |                   |
|----------------|-------------------|
| REVISION DATE: | November 24, 2017 |
|----------------|-------------------|

The information contains herein is given in good faith, but no warranty, expressed or implied, is made.