



# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

**PRODUCT NAME:** MTL Ultra Demul 300

**PRODUCT USE:** Drilling Fluid Additive **CAS NO.** N/A

**CHEMICAL FAMILY:** Sulphonic Acid Salt

### WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

**WHMIS CLASSIFICATION:** B2, D1B, D2B

**WORK PLACE HAZARD:** Flammable liquid. Oral, Skin and Eye Irritant.

### TRANSPORTATION OF DANGEROUS GOODS (TDG)

**SHIPPING NAME:** Flammable Liquid, N.O.S., (Isopropanol)

**TDG CLASSIFICATION:** Class 3

**UN NUMBER (PIN):** 1993

**PACKING GROUP:** II

## SECTION II: HAZARDOUS INGREDIENTS

| <u>INGREDIENTS</u> | <u>PERCENTAGE BY WEIGHT</u> | <u>CAS NO.</u> |
|--------------------|-----------------------------|----------------|
| Sulphuric Acid     | 1-5                         | 7664-93-9      |
| Isopropanol        | 30                          | 67-63-0        |
| Sulphonic Acid     | 1-5                         | 27276-87-0     |

## SECTION III: TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY:**  SKIN  EYE CONTACT  INHALATION  INGESTION

**EYE CONTACT:** Vapours from this product are irritating to the eye. Splashes to the eye may cause severe irritation, redness and pain. Burns (chemical) can occur if not promptly removed.

**SKIN CONTACT:** Brief contact causes irritation (itching, local redness or possible swelling). Burns (chemical) can occur if not promptly removed.

**INGESTION:** This product causes severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhoea and perforation of the oesophagus and stomach lining may occur.

**INHALATION:** Product may cause severe irritation of the nose, throat and respiratory tract.



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## SECTION IV: FIRST AID MEASURES

- SKIN CONTACT:** Wash affected area with soap and water for at least 15 minutes. Remove and clean contaminated clothing. Seek medical attention if irritation develops or persists.
- EYE CONTACT:** If splashed into the eyes, flush with clear water for 15 minutes by holding eye open while flushing. Seek immediate medical attention.
- INGESTION:** Drink plenty of water; do not induce vomiting. Seek immediate medical aid. Never give anything by mouth to an unconscious person.
- INHALATION:** Remove patient to fresh air. Apply artificial respiration if breathing has stopped. If difficulty breathing, administer oxygen. Seek immediate medical attention.
- PRODUCT CONTAINS ISOPROPANOL. ADMINISTER ACTIVATED CARBON IF INDICATED.

## SECTION V: PHYSICAL DATA

|   |                             |
|---|-----------------------------|
| <b>APPEARANCE AND ODOUR:</b>            | Amber liquid, alcohol odour |
| <b>SPECIFIC GRAVITY:</b>                | .85                         |
| <b>BOILING POINT (°C):</b>              | 83°C                        |
| <b>MELTING POINT (°C):</b>              | N/A                         |
| <b>pH:</b>                              | 6 -8                        |
| <b>PERCENT VOLATILE BY VOLUME:</b>      | 70-80                       |
| <b>EVAPORATION RATE:</b>                | (Butyl Acetate=1.0) N/A     |
| <b>BULK DENSITY (kg/m<sup>3</sup>):</b> | 850 kg/m <sup>3</sup>       |

## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

- FLASH POINT:** 11°C
- FLAMMABLE LIMITS:** Upper 36% Lower 1.0%
- EXTINGUISHING MEDIA:** Use carbon dioxide or dry chemical media for small fires. If only water is available, use it in the form of a fog. This material may produce a floating fire hazard in extreme fire conditions.
- SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool fire-exposed containers or structures. Use water spray to disperse vapours; re-ignition is possible. Isolate materials that are not involved in the fire and protect personnel. Cool containers with flooding quantities of water until well after the fire is out. Spilled material may cause floors to become slippery.
- UNUSUAL FIRE/ EXPLOSION HAZARDS:** None Known



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## SECTION VII: REACTIVITY DATA

| STABILITY:                                    | Stable [XX]  | Unstable [ ]  |
|---|--|---------------|
| <b>INCOMPATIBILITY (CONDITIONS TO AVOID):</b> | Oxidizers, nitric acid, sulphuric acid, halogen, molten sulphur acids. |               |
| <b>CONDITIONS OF REACTIVITY:</b>              | Contact with acids leads to sulphur dioxide fumes.                     |               |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>      | Oxides of sulphur/nitrogen.  |               |
| <b>HAZARDOUS POLYMERIZATION:</b>              | Will Not Occur [XX]  | May Occur [ ] |

## VIII: PREVENTIVE MEASURES

### SPECIAL PROTECTION INFORMATION

|                                    |   |
|------------------------------------|---|
| <b>RESPIRATORY PROTECTION:</b>     | A NIOSH/MSHA approved air-purifying respirator equipped with organic cartridges for concentrations of 200ppm isopropanol.                             |
| <b>VENTILATION:</b>                | Suggested local mechanical exhaust. Ventilation should be corrosion and explosion proof.  |
| <b>PROTECTIVE GLOVES:</b>          | Suggest plastic or rubber.  |
| <b>EYE PROTECTION:</b>             | Safety glasses with side shields are recommended to prevent eye contact. Contact lenses should not be worn when working with this material.           |
| <b>OTHER PROTECTIVE EQUIPMENT:</b> | Wear an impermeable apron and boots. Locate safety shower and eyewash station close to chemical handling area. Take all precautions to avoid contact. |

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Avoid practices that produce dust. Store away from heat, flame and spark source. Store in a cool, dry area; moisture will spoil product.

### STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Remove all sources of ignition. Contain spill. Absorb material on appropriate non-flammable absorbent and shovel into compatible containers. Avoid all bodily contact. Appropriate breathing apparatus must be worn if ventilation is inadequate. Do not allow product to enter sewers or storm water inlets.

### WASTE DISPOSAL METHOD

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the user to determine if contaminated material meets hazardous waste requirements.

## SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

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|-----------------------|-----------------------|---------------------|-------------------------------------|
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24 HOUR PHONE: 403-252-5904