



# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

**PRODUCT NAME:** Ultracide  
**PRODUCT USE:** Oil well fluid additive  
**CHEMICAL FAMILY:** Glutaraldehyde

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

**WHMIS CLASSIFICATION:** Class B2, D1A, D2B, E  
**WORK PLACE HAZARD:** Flammable Liquid, Corrosive

### TRANSPORTATION OF DANGEROUS GOODS (TDG)

**SHIPPING NAME:** Flammable Liquid, N.O.S. (Contains Acetone)  
**TDG CLASSIFICATION:** 3 (8)  
**UN NUMBER (PIN):** 1993  
**PACKING GROUP:** II

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## SECTION II: HAZARDOUS INGREDIENTS

| <u>INGREDIENT</u> | <u>PERCENT</u> | <u>CAS NUMBER</u> | <u>LD(50) RAT</u> | <u>OSHA PEL</u> |
|-------------------|----------------|-------------------|-------------------|-----------------|
| Methanol          | 3-7%           | 67-56-1           | N/A               | N/A             |
| Glutaraldehyde    | 15-40%         | 111-30-8          | N/A               | N/A             |
| Acetone           | 15-40%         | 67-64-1           | N/A               | 1000ppm         |

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## SECTION III: TOXICOLOGICAL PROPERTIES

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

**EYE CONTACT:** Corrosive! Causes irreversible eye damage. Do not get into eyes.

**SKIN CONTACT:** Causes skin burns. Harmful if absorbed through skin. May cause skin sensitization. Do not get on skin or on clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

**INHALATION:** Harmful if inhaled. Avoid breathing vapour.

**INGESTION:** Harmful if swallowed. Do not swallow.

## SECTION IV: FIRST AID MEASURES

**SKIN CONTACT:** Immediately remove contaminated clothing and shoes. Wash skin with soap and water. Obtain medical attention. Wash clothing before reuse. Discard contaminated leather articles



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such as shoes and belt.

- EYE CONTACT:** Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.
- INGESTION :** DO NOT INDUCE VOMITING. Do not give anything to drink. Obtain medical attention without delay.
- INHALATION:** Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.
- NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Aspiration may cause lung damage.

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## SECTION V: PHYSICAL DATA

|                                    |   |
|------------------------------------|---|
| <b>APPEARANCE AND ODOUR:</b>       | Clear colourless liquid, Aldehyde odour |
| <b>SPECIFIC GRAVITY (@ 20°C):</b>  | 0.972 - 1.002                           |
| <b>BOILING POINT (°C):</b>         | 70.0°C (158°F)                          |
| <b>FREEZING POINT (°C):</b>        | N/A                                     |
| <b>pH:</b>                         | 3.0 – 4.5                               |
| <b>SOLUBILITY IN WATER:</b>        | 100%                                    |
| <b>PERCENT VOLATILE BY VOLUME:</b> | N/D                                     |
| <b>EVAPORATION RATE:</b>           | N/D                                     |

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## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

- FLASH POINT:** -8°C (18°F) TCC
- FLAMMABLE LIMITS:** LEL,%(V): 2.5 Based on Acetone: UEL,%(V): 12.8
- EXTINGUISHING MEDIA:** Dry chemical, water spray or foam. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is out. **DO NOT GET WATER INSIDE CONTAINER.** Stay away from ends of containers.
- SPECIAL FIRE FIGHTING PROCEDURES:** Use self contained breathing apparatus and protective clothing.
- UNUSUAL FIRE / EXPLOSION HAZARDS:** Flammable materials may be ignited by heat, sparks or flames. Vapours may travel to a source of ignition and flash back. Containers may explode in heat of fire. Runoff to a sewer may create a fire or explosion hazard.

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## SECTION VII: REACTIVITY DATA

**STABILITY:** Stable [XX] Unstable [ ]



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**INCOMPATIBILITY (CONDITIONS TO AVOID):** Flames, high temperatures, evaporation of water.

**CONDITIONS OF REACTIVITY:** Alkalies catalyze and aldol type condensation.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon.

**HAZARDOUS POLYMERIZATION:** Will Not Occur [XX] May Occur [ ]

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## SECTION VIII: PREVENTIVE MEASURES

### SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** Use a NIOSH approved respirator if exposure limits are exceeded. Use SCBA in high vapour concentrations.

**VENTILATION:** Local or general exhaust recommended.

**PROTECTIVE GLOVES:** Chemically resistant / Non-slip gloves.

**EYE PROTECTION:** Chemical safety goggles/safety glasses. A face shield may be necessary.

**OTHER PROTECTIVE EQUIPMENT:** Use of impervious protective clothing is recommended. An emergency eye wash station and safety shower should be located in immediate work area. Clean up spills promptly, wash contaminated clothing.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Danger: corrosive-causes irreversible eye damage. Causes skin burns. Harmful if inhaled, swallowed, absorbed through skin, and may cause skin sensitization. Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow. Wear goggles, protective clothing, and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. For industrial use only.

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

Wear suitable protective equipment. Toxic to fish; avoid discharge to natural waters. Very low concentrations (10ppm or less) can be degraded in a biological treatment system. Thus, small spills can be flushed with large quantities of water. Large quantities or "slugs" can be harmful to the treatment system. Thus, large spills should be collected for disposal. It may also be possible to decontaminate spilled material by careful application of aqueous sodium hydroxide or dibasic ammonium phosphate solution. Depending on conditions, considerable heat and fumes can be liberated by the decontamination reaction.

### WASTE DISPOSAL METHOD

Atomize into a very hot incinerator fire or mix with a suitable flammable solvent, and incinerate where permitted under appropriate Federal, State, and local regulations. High water content may dampen flame.

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## SECTION IX: PREPARATION

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

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24 HOUR PHONE: 403-252-5904