

GIBSON ENERGY ULC
MATERIAL SAFETY DATA SHEET
USED REVFL0 FRAC FLUID



5. PREVENTATIVE AND CORRECTIVE MEASURES

SPECIAL PROTECTION INFORMATION:

The selection of personal protective equipment varies, depending upon conditions of use.

SCBA should be worn in areas of insufficient oxygen or when H2S levels are in excess of 15 ppm.

Fire retardant clothing should be worn. Where eye contact is unlikely, but may occur as a result of short and/or periodic exposures, wear safety glasses with side shields and chemical resistant gloves.

ENGINEERING CONTROLS:

Use explosion-proof ventilation to control vapour concentration, for personnel entry into confined space, entry procedure must include ventilation and testing of atmosphere. Make up air must be supplied to balance air exhausted.

HANDLING, STORAGE AND SHIPPING:

Keep containers closed. Store in a cool, well ventilated place away from incompatible materials. Empty containers may contain product residue. Do not pressurize, cut, heat or weld empty containers. Do not handle or store near an open flame, source of heat or source of ignition and use proper grounding procedures. Do not reuse empty containers without commercial cleaning or reconditioning.

LAND SPILL:

Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Vapours or mists may be harmful or fatal. Warn occupants in downwind areas. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust. Recover by pumping (use an explosion-proof motor or hand pump) or by using a suitable absorbent.

SPILL CONTROL AND DISPOSAL:

Consult an expert on disposal of recovered material. Ensure disposal is in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authority immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

WATER SPILL:

Prevent additional discharge of material, if possible to do so without hazard. Attempt to contain floating material. Eliminate all sources of ignition. Vapours or dust may be harmful or fatal. Warn occupants and shipping in downwind areas. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters.

7. FIRE AND EXPLOSION HAZARD:

Flash-point	-7 to 15 C PMCC
Auto-ignition:	450 est
Flammable Limits (% volume):	10. – 10.0 est
Static Spark	May cause ignition
Flammability	Extremely flammable
Chemical Stability	Stable mixture

FIREFIGHTING:

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to fire if possible to do so without hazard. If a leak or spill has not ignited, use water fog to disperse the vapours. Either allow fire to burn out under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

Respiratory and eye protection required for fire fighting personnel.

A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

HAZARDOUS COMBUSTION PRODUCTS:

CO₂, NO_x, CO

8. REACTIVITY DATA

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents, Chlorine Dioxide

9. NOTES

10. PREPARATION INFORMATION

Prepared by:	GIBSON ENERGY ULC 1700, 440 – 2 nd Ave. SW CALGARY, AB T2P 5E9
Issued by:	HEALTH, SAFETY & ENVIRONMENT DEPT.
Telephone:	(403) 206-4000
Date Prepared:	July 23, 2010

CAUTION:

The information contained herein is provided free of charge and is offered to the user in good faith as accurate. Certain of the information has been obtained from sources outside of the supplier and while the supplier believes such information to be correct, it cannot guarantee its accuracy or completeness.

The information contained herein relates only to the product or material set forth in Section 1 and may not be applicable or complete if such product or material is used in combination with any other product or material or in any process. The information may not be applicable or complete for all individual deliveries or if the product or material is used for a purpose or under conditions that are abnormal or not reasonably foreseeable. For greater certainty, uses other than those described in Section 1 must be reviewed with the supplier.

It is the user's obligation to consider, investigate and verify the information, to use the product safely and to comply with all applicable laws and regulations.

The supplier makes no warranties, guarantees or conditions express or implied in respect of the information contained herein.