

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/19/2015 Revision date: 01/23/2017

<b>SECTION 1: Identifie</b>	cation	
1.1. Identification		
Product form		: Mixtures
Product name		: C-1690 (Packer Fluid)
1.2. Recommended	use and restrictio	ns on use
Use of the substance/mixtu		: Packer Fluid
1.3. Supplier		
Chemical Consultants Ind	<b>.</b>	
1600 Ratcliff Drive Gillette, WY 82716 - Unit T 307-686-2141 - F 307-0 www.chemicalconsultant	ed States 686-1106	
1.4. Emergency tele	phone number	
Emergency number		: INFOTRAC 1-800-424-5571
<b>SECTION 2: Hazard</b>	(s) identificatio	on la
2.1. Classification o	of the substance of	r mixture
GHS-US classification		
Flammable liquids	H226	Flammable liquid and vapor
Category 3	11000	
Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Acute toxicity (dermal) Category 4	H312	Harmful in contact with skin
Acute toxicity (inhalation:vapour) Category 4	H332	Harmful if inhaled
Specific target organ toxicity (single exposure) Category 1	H370	Causes damage to organs (eyes, respiratory tract, Skin) (Dermal, Inhalation, oral)
Full text of H statements :	see section 16	
	anda includion o	
2.2. GHS Label elen GHS-US labeling	nents, including pi	recautionary statements
Hazard pictograms (GHS	2119)	
	-00)	
Signal word (CUS US)		GHS02 GHS07 GHS08
Signal word (GHS-US)		: Danger
Hazard statements (GHS	-03)	<ul> <li>H226 - Flammable liquid and vapor</li> <li>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled</li> <li>H370 - Causes damage to organs (eyes, respiratory tract, Skin) (Dermal, Inhalation, oral)</li> </ul>
Precautionary statements	s (GHS-US)	<ul> <li>P210 - Keep away from open flames, sparks No smoking</li> <li>P233 - Keep container tightly closed</li> <li>P240 - Ground/Bond container and receiving equipment</li> <li>P241 - Use explosion-proof electrical, lighting, ventilating equipment</li> <li>P242 - Use only non-sparking tools</li> <li>P243 - Take precautionary measures against static discharge</li> <li>P260 - Do not breathe fume, vapors</li> <li>P261 - Avoid breathing fume, vapors</li> <li>P264 - Wash hands thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear eye protection, protective gloves</li> <li>P301+P312 - If swallowed: Call a POISON CENTER if you feel unwell</li> </ul>

P301+P312 - If swallowed: Call a POISON CENTER if you feel unwell

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		<ul> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P307+P311 - If exposed: Call a poison center/doctor</li> <li>P312 - Call a POISON CENTER if you feel unwell</li> <li>P321 - Specific treatment (see First aid measures on this label)</li> <li>P322 - Specific treatment (see on this label)</li> <li>P330 - Rinse mouth</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in</li> </ul>
		accordance with local, regional, national and/or international regulation
2.3.	Other hazards which do not result in c	lassification
No add	litional information available	

2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

## 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Methanol	(CAS No) 67-56-1	15-25	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 1, H370

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECT	ION 4: First-aid measures		
4.1.	Description of first aid measures		
First-	aid measures general	:	IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
First-	aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-	aid measures after skin contact	:	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-	aid measures after eye contact	:	Rinse eyes with water as a precaution.
First-	aid measures after ingestion	:	Rinse mouth. Call a poison center/doctor/physician if you feel unwell.
4.2.	Most important symptoms and effe	cts (	acute and delayed)
No add	litional information available		
4.3.	Immediate medical attention and sp	oecia	I treatment, if necessary
Treat s	symptomatically.		
SECT	TION 5: Fire-fighting measures		
5.1.	Suitable (and unsuitable) extinguis	hing	media
Suita	ble extinguishing media	:	Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Specific hazards arising from the c	hemi	cal
Fire h	nazard	:	Flammable liquid and vapor.
Read	tivity	:	Flammable liquid and vapor.
5.3.	Special protective equipment and p	reca	utions for fire-fighters
Prote	ction during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release meas	sures		
6.1.1. For non-emergency personnel Emergency procedures	<ul> <li>No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing.</li> </ul>		
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containme	ent and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			
For further information refer to section 13.			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing.		
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including	ng any incompatibilities		
Technical measures	: Ground/bond container and receiving equipment.		
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.		
Incompatible products	: Oxidizing agent.		

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Methanol (67-56-1)		
ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	200 ppm

8.2.	Appropriate engineering controls	
••••	te engineering controls ental exposure controls	Ensure good ventilation of the work station. Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Protective goggles.

#### Hand protection:

Protective gloves

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### Eye protection:

Chemical goggles or face shield. Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

Wear respiratory protection



<b>SECTION 9: Physical and chemical</b>	properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Color	: dark red clear	
Odor	<ul> <li>There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.</li> <li>Mixture contains one or more component(s) which have the following odour(s): Alcohol odour Stuffy odour Mild odour Characteristic odour Pleasant odour Commercial/unpurified substance: Irritating/pungent odour</li> </ul>	
Odor threshold	: No data available	
рН	: 7.5	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: 170 °F	
Flash point	: 88 °F	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: 1.5 psi	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 0.96 @ 60° F	
Solubility	: No data available	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: 5.64 cSt @ 60° F	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivit	V	

SLUIK	IN TO. Stability and reactivity
10.1.	Reactivity
Flammab	le liquid and vapor.
10.2.	Chemical stability
Stable un	der normal conditions.
10.3.	Possibility of hazardous reactions
No dange	rous reactions known under normal conditions of use.

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## 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation:vapour: Harmful if inhaled.

C-1690 (Packer Fluid)	
ATE US (oral)	428.559 mg/kg body weight
ATE US (dermal)	1280.792 mg/kg body weight
ATE US (vapors)	12.857 mg/l/4h
Methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	300.000 mg/kg body weight
ATE US (gases)	64000.000 ppmV/4h
ATE US (vapors)	3.000 mg/l/4h
ATE US (dust, mist)	85.000 mg/l/4h
Skin corrosion/irritation	: Not classified
	pH: 7.5
Serious eye damage/irritation	: Not classified
	pH: 7.5
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Causes damage to organs (eyes, respiratory tract, Skin) (Dermal, Inhalation, oral).
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Methanol (67-56-1)	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)

12.2. Persistence and degradability

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Methanol (67-56-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O₂/g substance	
Chemical oxygen demand (COD)	1.42 g O₂/g substance	
ThOD	1.5 g O₂/g substance	
BOD (% of ThOD)	0.8 (Literature study)	

### 12.3. Bioaccumulative potential

Methanol (67-56-1)		
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)	
Log Pow	-0.77 (Experimental value; Other)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
12.4 Mobility in soil		

# 12.4. Mobility in soil

Methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)
Log Koc	Koc, PCKOCWIN v1.66; 1; Calculated value

## 12.5. Other adverse effects

Effect on the global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.

<b>SECTION 13: Disposal consideration</b>	IS
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapors may accumulate in the container.
<b>SECTION 14: Transport information</b>	
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1993 Flammable liquids, n.o.s. (methanol solution. Marine pollutant proprietary acetate), 3, III
UN-No.(DOT)	: UN1993
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.
	methanol solution. Marine pollutant proprietary acetate
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LIQUID
Marine pollutant	: Yes (IMDG only)
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242

: G - Identifies PSN requiring a technical name

DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

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<ul> <li>flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</li> <li>B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T4 - 2.65 178.274(d)(2) Normal</li></ul>
: 150
: 60 L
: 220 L
: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
: No supplementary information available.
: UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III
: 1993
: FLAMMABLE LIQUID, N.O.S.
: 3 - Flammable liquids
: III - substances presenting low danger
: 5L
: Yes (IMDG only)

### Air transport

Transport document description (IATA)	: UN 1993 Flammable liquid, n.o.s., 3, III
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information	
15.1. US Federal regulations	
C-1690 (Packer Fluid)	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard

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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Methanol		CAS No 67-56-1	15-25%
Methanol (67-56-1)			
CERCLA RQ	5000 lb		

#### 15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

Methanol (67-56-1)	
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U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	

### Methanol (67-56-1)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

# **SECTION 16: Other information**

Revision date

: 01/23/2017

#### Full text of H-phrases:

	1363.
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H331	Toxic if inhaled
H332	Harmful if inhaled
H370	Causes damage to organs

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NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B
	B - Safety glasses, Gloves

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product