

## Safety Data Sheet

Material Name: FB21WA

SDS ID: FB21WA

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

FB21WA

**Chemical Family**

Surfactant.

**Product Use**

Industrial.

**Restrictions on Use**

For specific use instructions, see your local Catalyst Oilfield Services sales representative. Actual usage of this product depends on many conditions, which can be reviewed with you. This product is to be used in industrial applications. DO NOT USE for any other purposes. Use care when mixing this product with any other chemical(s) or product(s).

**Details of the supplier of the safety data sheet**

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Call CHEMTREC Day or Night

Within USA and Canada 800-424-9300 or +1 703-527-3887 (Collect calls accepted) CCN1021931

### Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Flammable Liquids - Category 3

Acute Toxicity - Dermal - Category 4

Skin Corrosion/Irritation - Category 1

Serious Eye Damage/Eye Irritation - Category 1

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**

Flammable liquid and vapor.

Harmful in contact with skin.

Causes severe skin burns and eye damage.

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## Precautionary Statement(s)

### Prevention

Keep container tightly closed.  
Keep away from heat/sparks/open flame/hot surfaces - No smoking.  
Ground/Bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Take precautionary measures against static discharge.  
Use only non-sparking tools.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash thoroughly after handling.  
Do not breathe dusts or mists.

### Response

In case of fire: Use appropriate media to extinguish.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Take off contaminated clothing and wash before reuse.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Immediately call a POISON CENTER or doctor.  
Specific treatment (see label).

### Storage

Store in a well-ventilated place. Keep cool.  
Store locked up.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Statement(s) of Unknown Acute Toxicity

Dermal 36% of the mixture consists of ingredient(s) of unknown acute toxicity.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
67-56-1	Methyl alcohol	30-40
Proprietary	Quaternary ammonium compounds	60-70

## Section 4 - FIRST AID MEASURES

### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### Skin

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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## Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

## Most Important Symptoms/Effects

### Acute

Causes severe skin burns and eye damage.

### Delayed

none noticeable.

## Note to Physicians

Treat symptomatically.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

In case of fire, use water (flood with water), dry chemical, CO<sub>2</sub>, or alcohol foam.

### Special Hazards Arising from the Chemical

None.

### Hazardous Combustion Products

Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide, Carbon monoxide.

### Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### Fire Fighting Measures

Use water spray/stream to protect personnel and to cool endangered containers.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protection equipment.

### Environmental Precautions

Cover with absorbent or flush with water. Prevent runoff. Collect and dispose. Observe government regulations.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Keep container tightly closed. Handle and open container with care.

### Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep cool.

Store locked up.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

Methyl alcohol	67-56-1
ACGIH:	200 ppm TWA
	250 ppm STEL

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	Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:	200 ppm TWA ; 260 mg/m3 TWA
	250 ppm STEL ; 325 mg/m3 STEL
	Potential for dermal absorption
	6000 ppm IDLH
Europe:	200 ppm TWA ; 260 mg/m3 TWA
	Possibility of significant uptake through the skin
OSHA (US):	200 ppm TWA ; 260 mg/m3 TWA
Mexico:	200 ppm TWA [LMPE-PPT]; 260 mg/m3 TWA [LMPE-PPT]
	250 ppm STEL [LMPE-CT]; 310 mg/m3 STEL [LMPE-CT]
	Skin - potential for cutaneous absorption

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

**Methyl alcohol (67-56-1)**

15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific )

**Engineering Controls**

Maintain ventilation sufficient to reduce defined level(s) for any hazardous ingredient.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear eye protection/face protection.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection.

**Glove Recommendations**

Wear protective gloves and protective clothing.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Not available	<b>Physical State</b>	liquid
<b>Odor</b>	Alcohol.	<b>Color</b>	Colorless to Light Yellow.
<b>Odor Threshold</b>	Not available	<b>pH</b>	6 - 8
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available

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<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	<100 °F
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	0.88 g/cm3
<b>Water Solubility</b>	Soluble	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Kinematic viscosity</b>	Not available
<b>Solubility (Other)</b>	Not available	<b>Density</b>	7.33 #/gal
<b>Molecular Weight</b>	Not available		

### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

None Known.

#### Chemical Stability

The product is stable under storage at normal ambient temperatures.

#### Possibility of Hazardous Reactions

None Known.

#### Conditions to Avoid

Strong oxidizing agents and high temperatures.

#### Incompatible Materials

Strong acids, strong oxidizers.

#### Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), Carbon dioxide, Carbon monoxide.

### Section 11 - TOXICOLOGICAL INFORMATION

#### Acute and Chronic Toxicity

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## **Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

### **Methyl alcohol (67-56-1)**

Oral LD50 Rat 6200 mg/kg

Inhalation LC50 Rat 22500 ppm 8 h

### **Quaternary ammonium compounds (Proprietary)**

Oral LD50 Mouse 1608 mg/kg

Dermal LD50 Rat 1420 mg/kg

## **Product Toxicity Data**

### **Acute Toxicity Estimate**

Dermal	1420 mg/kg
Oral	> 2000 mg/kg

### **Immediate Effects**

No information on significant adverse effects.

### **Delayed Effects**

No information on significant adverse effects.

### **Irritation/Corrosivity Data**

No data available.

### **Respiratory Sensitization**

No data available.

### **Dermal Sensitization**

No data available.

### **Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

### **Germ Cell Mutagenicity**

No data available.

### **Tumorigenic Data**

No data available

### **Reproductive Toxicity**

No data available.

### **Specific Target Organ Toxicity - Single Exposure**

No data available.

### **Specific Target Organ Toxicity - Repeated Exposure**

No data available.

### **Aspiration hazard**

No data available.

### **Medical Conditions Aggravated by Exposure**

No data available.

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## Section 12 - ECOLOGICAL INFORMATION

### Component Analysis - Aquatic Toxicity

<b>Methyl alcohol</b>	<b>67-56-1</b>
Fish:	LC50 96 h Pimephales promelas 28200 mg/L [flow-through ]; LC50 96 h Pimephales promelas >100 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through ]; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static ]; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through ]
<b>Quaternary ammonium compounds</b>	<b>Proprietary</b>
Fish:	LC50 96 h Lepomis macrochirus 0.223 - 0.46 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 0.823 - 1.61 mg/L [static ]; LC50 96 h Oryzias latipes 2.4 mg/L [semi-static ]; LC50 96 h Poecilia reticulata 1.3 mg/L [semi-static ]

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

## Section 14 - TRANSPORT INFORMATION

### US DOT Information:

**Shipping Name:** FLAMMABLE LIQUIDS, N.O.S. , ( Contains: Methanol )

**Hazard Class:** 3

**UN/NA #:** UN1993

**Packing Group:** II

**Required Label(s):** 3

### IATA Information:

**Shipping Name:** FLAMMABLE LIQUID, N.O.S. , ( Contains: Methanol )

**Hazard Class:** 3

**UN#:** UN1993

**Packing Group:** II

**Required Label(s):** 3

### TDG Information:

**Shipping Name:** FLAMMABLE LIQUID, N.O.S. , ( Contains: Methanol )

**Hazard Class:** 3

**UN#:** UN1993

**Packing Group:** II

**Required Label(s):** 3

### International Bulk Chemical Code

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This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>Methyl alcohol</b>	<b>67-56-1</b>
IBC Code:	Category Y

## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Methyl alcohol</b>	<b>67-56-1</b>
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ

### SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Flammable; Acute toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
<b>Methyl alcohol</b>	<b>67-56-1</b>	Yes	Yes	Yes	Yes	Yes

### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)



**WARNING**

This product can expose you to chemicals including Methyl alcohol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

<b>Methyl alcohol</b>	<b>67-56-1</b>
Repro/Dev. Tox	Developmental toxicity, initial date 3/16/12

### Canada Regulations

#### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

<b>Methyl alcohol</b>	<b>67-56-1</b>
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## Component Analysis - Inventory

### Methyl alcohol (67-56-1)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	No	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	No	No	No

### Quaternary ammonium compounds (Proprietary)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
No	DSL	Yes	Yes	No	No	No	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	No	No	No

### U.S. Inventory (TSCA)

All ingredients are on the TSCA list.

## Section 16 - OTHER INFORMATION

### HMIS Rating

Health: 3 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

### NFPA Ratings

Health: 3 Fire: 3 Instability: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan

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Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

## Other Information

### Disclaimer:

Prepared By: jd.horrocks@ute-energy.com

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