



# KEL-TISSU-FIL TISSUE BUILDER

## Safety Data Sheet

### Section 1: Identification

#### Product identifier

**Product Name** • **Kel-Tissu-Fil**

#### Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** • Preparation room specialty chemical

#### Details of the supplier of the safety data sheet

**Manufacturer** • Kelco Supply  
20000 176th Street NW  
Big Lake, MN 55309  
United States  
www.kelcosupply.com  
info@kelcosupply.com

**Telephone (General)** • 800-328-7720

#### Emergency telephone number

**Manufacturer** • 800-424-9300 - CHEMTREC

**Manufacturer** • 202-483-7616 - CHEMTREC International

### Section 2: Hazard Identification

#### United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

**OSHA HCS 2012**

- Flammable Liquids 2
- Skin Irritation 2
- Eye Irritation 2
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
- Germ Cell Mutagenicity 2
- Reproductive Toxicity 2
- Specific Target Organ Toxicity Single Exposure 2
- Specific Target Organ Toxicity Repeated Exposure 1

#### Label elements

OSHA HCS 2012

#### DANGER



**Hazard statements** • Highly flammable liquid and vapour  
Causes skin irritation  
Causes serious eye irritation  
May cause drowsiness or dizziness  
Suspected of causing genetic defects.  
Suspected of damaging fertility or the unborn child.

May cause damage to organs.  
Causes damage to organs through prolonged or repeated exposure.

## Precautionary statements

- Prevention** • Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground and/or bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe mists, vapours, and/or spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • In case of fire: Use appropriate media for extinction.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
If on skin: Wash with plenty of water .  
Take off contaminated clothing and wash before reuse.  
Specific treatment, see supplemental first aid information.  
If skin irritation occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
Get medical advice/attention if you feel unwell.

- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.  
Keep cool.  
Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Other hazards

### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to: WHMIS

## Classification of the substance or mixture

### WHMIS

- Flammable Liquids - B2
- Toxic - D1B
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

## Label elements

### WHMIS



- Flammable Liquids - B2
- Toxic - D1B
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

## Other hazards

### WHMIS

- In Canada, the product mentioned above is considered hazardous under the

## Workplace Hazardous Materials Information System (WHMIS).

**Section 3 - Composition/Information on Ingredients****Substances**

- Material does not meet the criteria of a substance.

**Mixtures**

Composition				
Chemical Name	Identifiers	%	Classifications According to Regulation/Directive	Comments
Methanol	CAS:67-56-1	N/A	OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2A; Skin Irrit. 2; STOT SE 3: Narc.; STOT RE 1 (Eyes); STOT SE 2 (Eyes); Repr. 2	NDA
Proprietary	Proprietary	N/A	OSHA HCS 2012: Flam. Sol. 2; Pyr. Sol. 1	NDA
Proprietary	Proprietary	N/A	OSHA HCS 2012: Flam. Liq. 2; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; Muta. 2; STOT SE 3: Narc.	NDA
Proprietary	Proprietary	N/A	OSHA HCS 2012: Flam. Liq. 2; Acute Tox. 3 (Inhl); Eye Irrit. 2; STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.	NDA
Proprietary	Proprietary	N/A	OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; Muta. 2; Repr. 2; STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.; STOT RE 2 (Eyes, Inhl)	NDA
Proprietary	Proprietary	N/A	OSHA HCS 2012: Flam. Liq. 3; Eye Irrit. 2; STOT RE 1 (Blood); Acute Tox. 4 (Skn)	NDA

**Section 4: First-Aid Measures****Description of first aid measures****Inhalation**

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

**Skin**

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water.

**Eye**

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.

**Ingestion**

- Do NOT induce vomiting. Obtain medical attention immediately if ingested.

**Most important symptoms and effects, both acute and delayed**

- Refer to Section 11 - Toxicological Information.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**Section 5: Fire-Fighting Measures****Extinguishing media**

- Suitable Extinguishing Media**
- LARGE FIRES: Water spray, fog or alcohol-resistant foam.
  - SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

- Unsuitable Extinguishing**
- No data available

**Media****Special hazards arising from the substance or mixture****Unusual Fire and Explosion Hazards**

- **HIGHLY FLAMMABLE:** Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

**Hazardous Combustion Products**

- No data available

**Advice for firefighters**

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk. **LARGE FIRES:** Cool containers with flooding quantities of water until well after fire is out.

**Section 6 - Accidental Release Measures****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

- Ventilate the area. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Emergency Procedures**

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. **LARGE SPILL:** Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas.

**Environmental precautions**

- Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up****Containment/Clean-up Measures**

- Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. **LARGE SPILLS:** Dike far ahead of liquid spill for later disposal. **LARGE SPILLS:** Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**Section 7 - Handling and Storage****Precautions for safe handling****Handling**

- Use only in well ventilated areas. Keep away from heat, sparks, and flame. Take precautionary measures against static charges. Do not use sparking tools. All equipment used when handling the product must be grounded. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

## Conditions for safe storage, including any incompatibilities

### Storage

- Keep container tightly closed. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Proprietary (Proprietary)	TWAs	400 ppm TWA	400 ppm TWA; 1400 mg/m3 TWA	400 ppm TWA; 1400 mg/m3 TWA
Proprietary (Proprietary)	TWAs	200 ppm TWA	400 ppm TWA; 980 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA
	STELs	400 ppm STEL	500 ppm STEL; 1225 mg/m3 STEL	Not established
Methanol (67-56-1)	TWAs	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA
	STELs	250 ppm STEL	250 ppm STEL; 325 mg/m3 STEL	Not established
Proprietary (Proprietary)	TWAs	Not established	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA; 1900 mg/m3 TWA
	STELs	1000 ppm STEL	Not established	Not established

### Exposure controls

#### Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

#### Personal Protective Equipment

##### Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

##### Eye/Face

- Wear chemical splash safety goggles.

##### Skin/Body

- Wear appropriate gloves. Wear protective clothing - Splash apron

#### Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

## Section 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Dyed flesh-tone liquid with mild alcoholic odor.
Color	Dyed flesh-tone.	Odor	Mild alcoholic.
Odor Threshold	No data available		
General Properties			

Boiling Point	148 °F(64.4444 °C) (Methanol)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 0.81 Water=1	Water Solubility	Partially Soluble
Viscosity	No data available		

**Volatility**

Vapor Pressure	No data available	Vapor Density	> 1 Air=1
Evaporation Rate	No data available	Volatiles (Vol.)	> 90 %

**Flammability**

Flash Point	54 °F(12.2222 °C) TCC (Tagliabue Closed Cup) (Methanol)	UEL	36 % (Methanol)
LEL	6 % (Methanol)	Autoignition	No data available
Flammability (solid, gas)	No data available		

**Environmental**

Octanol/Water Partition coefficient	No data available		
-------------------------------------	-------------------	--	--

**Section 10: Stability and Reactivity**

**Reactivity**

- No dangerous reaction known under conditions of normal use.

**Chemical stability**

- Stable under normal temperatures and pressures.

**Possibility of hazardous reactions**

- Hazardous polymerization will not occur.

**Conditions to avoid**

- Keep away from heat, sparks, and flame.

**Incompatible materials**

- Do not mix with strong oxidizing agents or alkali.

**Hazardous decomposition products**

- No data available

**Section 11 - Toxicological Information**

**Information on toxicological effects**

		Components
Methanol (N/A)	67-56-1	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 5600 mg/kg; Inhalation-Rat LC50 • 64000 ppm 4 Hour(s); Skin-Rabbit LD50 • 15800 mg/kg;</p> <p><b>Irritation:</b> Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation;</p> <p><b>Mutagen:</b> Cytogenetic analysis • Ingestion/Oral-Mouse • 1 g/kg; DNA damage • Ingestion/Oral-Rat • 10 µmol/kg;</p> <p><b>Reproductive:</b> Inhalation-Mouse TClO • 1500 ppm 6 Hour(s)(7-9D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Central nervous system;</i></p> <p><b>Tumorigen / Carcinogen:</b> Inhalation-Rat TClO • 1000 ppm 2 Year(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Tumorigenic:Increased incidence of tumors in susceptible strains</i></p>
		<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3089 mg/kg; <i>Behavioral:Tremor; Lungs, Thorax, or Respiration:Dyspnea; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain;</i> Inhalation-Rat</p>

<p>Proprietary (N/A)</p>	<p>Proprietary</p>	<p>LC50 • 9060 mg/m<sup>3</sup>; Skin-Rabbit LD50 • 960 µL/kg;  <b>Irritation:</b> Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation;  <b>Multi-dose Toxicity:</b> Inhalation-Rat TCLo • 425 mg/m<sup>3</sup> 6 Hour(s) 10 Day(s)-Intermittent; <b>Blood:Changes in erythrocyte (RBC) count;</b>  <b>Reproductive:</b> Inhalation-Rat TCLo • 100 ppm 6 Hour(s)(6-15D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system</i></p>
<p>Proprietary (N/A)</p>	<p>Proprietary</p>	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • &gt;5 g/kg</p>
<p>Proprietary (N/A)</p>	<p>Proprietary</p>	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 7 g/kg; Ingestion/Oral-Human TDLo • 0.5 g/kg; <i>Behavioral:Somnolence (general depressed activity); Behavioral:Changes in psychophysiological tests;</i> Ingestion/Oral-Man TDLo • 3371 µL/kg; <i>Behavioral:Altered sleep time (including change in righting reflex); Behavioral:Excitement;</i> <i>Behavioral:Coma;</i> Ingestion/Oral-Rat TDLo • 8000 mg/kg; <i>Brain and Coverings:Other degenerative changes;</i> <i>Cardiac:Cardiomyopathy including infarction;</i> <i>Liver:Multiple effects;</i> Inhalation-Rat LC50 • 5900 mg/m<sup>3</sup> 6 Hour(s); <b>Irritation:</b> Eye-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation;  <b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 188 g/kg 25 Day(s)-Intermittent; <i>Liver:Fatty liver degeneration;</i> <i>Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Multiple enzyme effects;</i> <i>Biochemical:Metabolism (intermediary):Lipids, including transport;</i>  <b>Mutagen:</b> Cytogenetic analysis • Ingestion/Oral-Human • 49014 g/kg 25 Year(s); Dominant lethal test • Ingestion/Oral-Mouse • 3720 mg/kg 3 Day(s); Sperm Morphology • Ingestion/Oral-Mouse • 1500 mg/kg 50 Day(s);  <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 12 g/kg (9-12D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus);</i> Ingestion/Oral-Woman TDLo • 5860 mL/kg (3Y pre-100D post); <i>Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue);</i> <i>Reproductive Effects:Effects on Newborn:Behavioral;</i> <i>Reproductive Effects:Effects on Newborn:Delayed effects;</i>  <b>Tumorigen / Carcinogen:</b> Ingestion/Oral-Mouse • 400 g/kg 57 Week(s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria;</i> <i>Gastrointestinal:Tumors;</i> Ingestion/Oral-Mouse TDLo • 320 mg/kg 50 Week (s)-Intermittent; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria;</i> <i>Liver:Tumors;</i> <i>Blood:Lymphoma, including Hodgkin's disease</i></p>
<p>Proprietary (N/A)</p>	<p>Proprietary</p>	<p><b>Acute Toxicity:</b> Ingestion/Oral-Guinea Pig LD50 • 5500 mg/kg; <i>Behavioral:Somnolence (general depressed activity); Behavioral:Changes in motor activity (specific assay); Behavioral:Coma;</i> Ingestion/Oral-Rat LD50 • 5620 mg/kg; Inhalation-Rat LC50 • 200 g/m<sup>3</sup>; <i>Behavioral:Somnolence (general depressed activity); Lungs, Thorax, or Respiration:Acute pulmonary edema;</i> <i>Gastrointestinal:Changes in structure or function of salivary glands;</i> Inhalation-Rat LC50 • 1600 ppm 8 Hour(s); Inhalation-Human TCLo • 400 ppm; <i>Sense Organs and Special Senses:Olfaction:Other changes;</i> <i>Sense Organs and Special Senses:Eye:Conjunctive irritation;</i> <i>Lungs, Thorax, or Respiration:Other changes;</i> Skin-Rabbit LD50 • &gt;20 mL/kg;  <b>Irritation:</b> Eye-Human • 400 ppm;  <b>Multi-dose Toxicity:</b> Inhalation-Dog TCLo • 22 g/m<sup>3</sup> 40 Minute(s) 4 Week(s)-Intermittent; <i>Behavioral:Ataxia;</i> <i>Lungs, Thorax, or Respiration:Respiratory stimulation;</i> <i>Nutritional and Gross Metabolic:Changes in Chemistry or Temperature:Body temperature decrease;</i> Inhalation-Rat TCLo • 1500 ppm 90 Day(s)-Intermittent; <i>Sense Organs and Special Senses:Olfaction:Change in sensation of smell;</i> <i>Sense Organs and Special Senses:Olfaction:Other changes;</i>  <b>Mutagen:</b> Cytogenetic analysis • Unreported Route-Hamster • Fibroblast (Somatic cell) • 9 g/L</p>
<p>Proprietary (N/A)</p>	<p>Proprietary</p>	<p><b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 5000 mg/kg; <i>Behavioral:General anesthetic;</i> Inhalation-Rat LC50 • 16000 ppm 8 Hour(s); Inhalation-Guinea Pig TCLo • 980 mg/m<sup>3</sup> 24 Hour(s); <i>Sense Organs and Special Senses:Ear:Other;</i> <i>Behavioral:General anesthetic;</i> <i>Lungs, Thorax, or Respiration:Other changes;</i> Skin-Rabbit LD50 • 12800 mg/kg;  <b>Irritation:</b> Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg • Mild irritation;  <b>Multi-dose Toxicity:</b> Inhalation-Mouse TCLo • 5000 ppm 6 Hour(s) 13 Week(s)-Intermittent; <i>Behavioral:General anesthetic;</i> <i>Behavioral:Ataxia;</i> <i>Liver:Changes in liver weight;</i> Inhalation-Rat TCLo • 1000 mg/m<sup>3</sup> 6 Hour(s) 4 Week (s)-Intermittent; <i>Sense Organs and Special Senses:Eye:Optic nerve neuropathy;</i> Inhalation-Rat TCLo • 500 mg/m<sup>3</sup> 4 Hour(s) 122 Day(s)-Intermittent; <i>Liver:Multiple effects;</i> <i>Kidney, Ureter, and Bladder:Other changes;</i> <i>Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain;</i> Inhalation-Rat TCLo • 20 mg/m<sup>3</sup> 24 Hour(s) 90 Day(s)-Continuous; <i>Brain and Coverings:Other degenerative changes;</i> <i>Lungs, Thorax, or Respiration:Other changes;</i> <i>Liver:Multiple effects;</i> Inhalation-Rat TCLo • 100 mg/m<sup>3</sup> 4 Hour(s) 17 Week(s)-Intermittent; <i>Kidney, Ureter, and Bladder:Other changes in urine composition;</i> <i>Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol);</i> <i>Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:True cholinesterase;</i>  <b>Mutagen:</b> Cytogenetic analysis • Inhalation-Rat • 1030 µg/m<sup>3</sup> 16 Week(s)-Intermittent;  <b>Reproductive:</b> Inhalation-Rat TCLo • 3500 ppm 7 Hour(s)(1-19D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus);</i> Inhalation-Rat TCLo • 10000 ppm 7 Hour(s)(1-19D preg); <i>Reproductive Effects:Effects on Fertility:Pre-implantation mortality;</i> <i>Reproductive Effects:Effects on Fertility:Post-</i></p>

**implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Fetal death**

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2
Skin sensitization	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • No data available
Germ Cell Mutagenicity	OSHA HCS 2012 • Germ Cell Mutagenicity 2
Toxicity for Reproduction	OSHA HCS 2012 • Toxic to Reproduction 2
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 2; Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1

**Potential Health Effects**

**Inhalation**

- Acute (Immediate)**
  - May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.
- Chronic (Delayed)**
  - No data available

**Skin**

- Acute (Immediate)**
  - Causes skin irritation.
- Chronic (Delayed)**
  - No data available

**Eye**

- Acute (Immediate)**
  - Causes serious eye irritation.
- Chronic (Delayed)**
  - No data available

**Ingestion**

- Acute (Immediate)**
  - Poisonous. Ingested methanol can cause blindness.
- Chronic (Delayed)**
  - No data available

**Other**

- Acute (Immediate)**
  - Acute methanol toxicity in humans causes blurred vision, photophobia, and pains in the eyes. Depending on the amount of methanol consumed, the individual susceptibility and the time at which treatment began, these visual disturbances may either recede or develop within a few days into visual impairments or total blindness.
- Chronic (Delayed)**
  - The neurotoxic effects of methanol on the visual system can involve transient abnormalities such as peripapillary edema, optic disc hyperemia, diminished pupillary reactions to light, and central scotomata. Permanent ocular abnormalities include optic disc pallor, attenuation of arterioles, sheathing of arterioles, diminished pupillary reactions to light, diminished visual acuity, central scotomata, and other nerve fiber bundle defects. A component of this material may cause effects on the blood, resulting in lesions of blood cells.

**Mutagenic Effects**

- Repeated and prolonged exposure may cause mutagenic effects.

**Carcinogenic Effects**

- This material does contain a component that may cause cancer, however based on regulatory criteria this material is not classified as a carcinogen.

<b>Carcinogenic Effects</b>	
CAS	IARC

Proprietary	Proprietary	Group 1-Carcinogenic
-------------	-------------	----------------------

**Reproductive Effects** • Repeated and prolonged exposure may affect the reproductive system.

**Key to abbreviations**

- LC = Lethal Concentration
- LD = Lethal Dose
- TC = Toxic Concentration
- TD = Toxic Dose

**Section 12 - Ecological Information**

**Toxicity**

- Non-mandatory section - information about this substance not compiled for this reason.

**Persistence and degradability**

- Non-mandatory section - information about this substance not compiled for this reason.

**Bioaccumulative potential**

- Non-mandatory section - information about this substance not compiled for this reason.

**Mobility in Soil**

- Non-mandatory section - information about this substance not compiled for this reason.

**Other adverse effects**

- Non-mandatory section - information about this substance not compiled for this reason.

**Section 13 - Disposal Considerations**

**Waste treatment methods**

**Product waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	UN1230	Methanol	3,6.1	II	NDA
TDG	UN1230	METHANOL	3,6.1	II	NDA
IATA/ICAO	UN1230	Methanol	3,6.1	II	NDA

**Special precautions for user** • None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications** • Acute, Chronic, Fire

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Proprietary	Proprietary	Yes	No	Yes
Proprietary	Proprietary	Yes	No	Yes
Proprietary	Proprietary	Yes	No	Yes
Proprietary	Proprietary	Yes	No	Yes
Methanol	67-56-1	Yes	No	Yes
Proprietary	Proprietary	Yes	No	Yes

### Canada

Labor			
<b>Canada - WHMIS - Classifications of Substances</b>			
• Proprietary	Proprietary	B2	
• Proprietary	Proprietary	B2, D2B (including 70%)	
• Methanol	67-56-1	B2, D1B, D2A, D2B (including 28%)	
• Proprietary	Proprietary	B2, D2B	
• Proprietary	Proprietary	B3, D1B, D2B	
• Proprietary	Proprietary	B4, F	
<b>Canada - WHMIS - Ingredient Disclosure List</b>			
• Proprietary	Proprietary	1 %	
• Proprietary	Proprietary	1 %	
• Methanol	67-56-1	1 %	
• Proprietary	Proprietary	0.1 %	
• Proprietary	Proprietary	Not Listed	
• Proprietary	Proprietary	Not Listed	

Environment			
<b>Canada - CEPA - Priority Substances List</b>			
• Proprietary	Proprietary	Not Listed	
• Proprietary	Proprietary	Not Listed	
• Methanol	67-56-1	Not Listed	
• Proprietary	Proprietary	Not Listed	
• Proprietary	Proprietary	Not Listed	
• Proprietary	Proprietary	Not Listed	

### United States

Labor			
<b>U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals</b>			
• Proprietary	Proprietary	Not Listed	
• Proprietary	Proprietary	Not Listed	
• Methanol	67-56-1	Not Listed	
• Proprietary	Proprietary	Not Listed	
• Proprietary	Proprietary	Not Listed	

• <i>Proprietary</i>	<i>Proprietary</i>	2500 lb TQ (concentration >12.6% Nitrogen)
<b>U.S. - OSHA - Specifically Regulated Chemicals</b>		
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• Methanol	67-56-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed

**Environment**

**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• Methanol	67-56-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed

**U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**

• <i>Proprietary</i>	<i>Proprietary</i>	5000 lb final RQ; 2270 kg final RQ
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• Methanol	67-56-1	5000 lb final RQ; 2270 kg final RQ
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed

**U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**

• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• Methanol	67-56-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**

• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• Methanol	67-56-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed

**U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• Methanol	67-56-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
• Methanol	67-56-1	1.0 % de minimis concentration
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
<b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b>		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed

**United States - California**

**Environment**

**U.S. - California - Proposition 65 - Carcinogens List**

• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	carcinogen, 4/29/2011 (in alcoholic beverages)
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	developmental toxicity, 3/16/2012
• Proprietary	Proprietary	developmental toxicity, 10/1/1987 (in alcoholic beverages)
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	47000 µg/day MADL (inhalation); 23000 µg/day MADL (oral)
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Methanol	67-56-1	Not Listed

• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>		
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• Methanol	67-56-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>		
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• Methanol	67-56-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed

## Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

### Section 16 - Other Information

**Revision Date**

- 01/April/2016

**Preparation Date**

- 01/January/2010

**Disclaimer/Statement of Liability**

- The information on this Safety Data Sheet (SDS) has been compiled from 29 CFR 1910.1200, supplier SDS, other technical references and our testing and experience. Users are responsible for determining the suitability of this product and information for their circumstances and for knowing of and complying with all pertinent federal and state regulations.

**Key to abbreviations**

NDA = No Data Available