

### **Lanobase 28 - Vigorous Performance**

### **Safety Data Sheet**

#### **Section 1: Identification**

**Product identifier** 

Product Name • Lanobase 28

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

Recommended use 

• Arterial embalming fluid

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** 

• 800-424-9300 - CHEMTREC

202-483-7616 - CHEMTREC International

Manufacturer • 800-328-7720 - Kelco Supply Company - Customer Service

### **Section 2: Hazard Identification**

**United States (US)** 

According to: OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

OSHA HCS 2012

Combustible liquid
 Acute Toxicity Oral 4
 Acute Toxicity Dermal 3
 Skin Corrosion/Irritation 1C
 Skin Sensitization 1A
 Serious Eye Damage 1
 Acute Toxicity Inhalation 3
 Germ Cell Mutagenicity 1B
 Carcinogenicity 1A
 Penroductive Toxicity 1B

Reproductive Toxicity 1B

Specific Target Organ Toxicity Single Exposure 2 Specific Target Organ Toxicity Repeated Exposure 1

Label elements
OSHA HCS 2012

#### **DANGER**









Preparation Date: 01/May/2012 Revision Date: 6/February/2020 Revision Date: 2/September/2022 Format: GHS Language: English (US) WHMIS, OSHA HCS 2012

#### Hazard statements • Combustible liquid

Harmful if swallowed Toxic in contact with skin

Causes severe skin burns and eve damage.

May cause an allergic skin reaction Causes serious eve damage.

Toxic if inhaled.

May cause genetic defects.

May cause cancer.

May damage fertility; May damage or the unborn child.

May cause damage to organs.

Causes damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

Prevention • Obtain SDS information 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.

Do not breathe dust/fumes/gas/mist/vapours and/or spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves, clothing, and eye/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.

IF ON SKIN(or hair): Wash with plenty of soap and water. Rinse SKIN with water/ shower. Take off immediately all contaminated clothing and wash it before reuse. Specific treatment, see supplemental first aid information.

If skin irritation or rash occurs: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.

**Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

**Supplemental information** • This product consists of an ingredient of unknown toxicity of 0-1.335 percent via the oral route, 1.78-4.45 percent via the dermal route, and 1.78-4.45 percent via the

inhalation route.

#### 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** 

Combustible Liquids - B3 Very Toxic - D1A Other Toxic Effects - D2A Other Toxic Effects - D2B

#### Label elements

Preparation Date: 01/May/2012 Revision Date: 6/February/2020 Revision Date: 2/September/2022

Format: GHS Language: English (US) WHMIS, OSHA HCS 2012

#### **WHMIS**







Combustible Liquids - B3
 Very Toxic - D1A
 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	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Methanol	<b>CAS</b> :67-56-1	N/A	Inhalation-Rat LC50 • 64000 ppm 4 Hour(s) Skin-Rabbit LD50 • 15800 mg/kg Ingestion/Oral-Rat LD50 • 5600 mg/kg	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
Formaldehyde	<b>CAS:</b> 50-00-	N/A	Ingestion/Oral-Rat LD50 • 100 mg/kg Inhalation-Rat LC50 • 203 mg/m³ Skin-Rabbit LD50 • 270 mg/kg	OSHA HCS 2012: Skin Corr. 1C; Eye Dam. 1; Acute Tox. 3 (orl, skn); Carc. 1A; Skin Sens. 1A; Muta. 1B; Acute Tox. 2 (inhl)	NDA
Proprietary	Proprietary	N/A	Ingestion/Oral-Rat LD50 • 2500 mg/kg	OSHA HCS 2012: Repr. 1B; STOT RE 2 (Kidney)	NDA
Proprietary	Proprietary	N/A	Ingestion/Oral-Rat LD50 • 1200 mg/kg	OSHA HCS 2012: Acute Tox 4 (orl); Repr. 2	NDA
Proprietary	Proprietary	N/A	NDA	OSHA HCS 2012: Eye Irrit. 2	NDA
Proprietary	Proprietary	N/A	Inhalation-Rat LC50 • 16000 ppm 8 Hour(s) Skin-Rabbit LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg	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	Ingestion/Oral-Rat LD50 • 3700 mg/kg	OSHA HCS 2012: Exposure limits	NDA

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

#### Section 4: First-Aid Measures

### **Description of first aid measures**

#### Inhalation

 Move victim to fresh air. Administer oxygen if breathing is difficult. Do not use mouthto-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

For minor skin contact, avoid spreading material on unaffected 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. If irritation develops and persists, get medical attention.

Eye

• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

#### 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. 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 . SMALL FIRES: Dry chemical, CO2, water spray or alcohol-resistant foam.

LARGE FIRES: Water spray, fog or alcohol-resistant foam.

**Unsuitable Extinguishing** Media

No data available

### Special hazards arising from the substance or mixture

#### **Unusual Fire and Explosion Hazards**

Containers may explode when heated.

HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.

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.

Formaldehyde can oxidize with air and heat to give corrosive formic acid fumes.

#### **Hazardous Combustion Products**

No data available

### Advice for firefighters

Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal 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

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out.

#### Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

• Ventilate enclosed areas. CAUTION: Victim may be a source of contamination. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

#### **Emergency Procedures**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container. 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.

#### **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 small amounts on paper or rags and remove in a labeled, covered container. For large spills 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 with adequate ventilation. Handle and open container with care. Keep away from heat, sparks, and flame. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Do not get in eyes or on skin or clothing. 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 dry, well-ventilated place above 35°F. Keep away from fire.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

Exposure Limits/Guidelines					
	Result	ACGIH	NIOSH	OSHA	
Proprietary	STELs	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established	
(Proprietary)		2 mg/m3 TWA (inhalable fraction,			

	TWAs	listed under Borate compounds, inorganic)	1 mg/m3 TWA	Not established
Proprietary	STELs	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established
(Proprietary)	TWAs	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	1 mg/m3 TWA	Not established
Proprietary (Proprietary)	TWAs	20 ppm TWA (listed under Turpentine and selected monoterpenes)	Not established	Not established
Proprietary	TWAs	200 ppm TWA	400 ppm TWA; 980 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA
(Proprietary)	STELs	400 ppm STEL	500 ppm STEL; 1225 mg/m3 STEL	Not established
Proprietary	STELs	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established
(Proprietary)	TWAs	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established
Methanol	TWAs	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA	200 ppm TWA; 260 mg/m3 TWA
(67-56-1)	STELs	250 ppm STEL	250 ppm STEL; 325 mg/m3 STEL	Not established
Formaldehyde	STELs	Not established	Not established	2 ppm STEL (see 29 CFR 1910.1048)
(50-00-0)	TWAs	Not established	0.016 ppm TWA	0.75 ppm TWA
	Ceilings	0.3 ppm Ceiling	0.1 ppm Ceiling (15 min)	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 Skin/Body

Controls

**Environmental Exposure** 

- Wear chemical splash safety goggles.
- Wear appropriate gloves. Wear protective clothing Splash apron
- 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 NIOSH = National Institute of Occupational Safety and Health OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

### Section 9 - Physical and Chemical Properties

## **Information on Physical and Chemical Properties**

Material Description			
Physical Form	Liquid	Appearance/Description	Clear red liquid with a pungent odor.
Color	Clear red.	Odor	Pungent
Odor Threshold	No data available		
General Properties			•
Boiling Point	190 to 210 F(87.7778 to 98.8889 C)	Melting Point	No data available
Decomposition Temperature	No data available	рН	No data available
Specific Gravity/Relative Density	> 1 Water=1	Water Solubility	Soluble 100 %
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	> 1 Air=1
Evaporation Rate	No data available	Volatiles (Wt.)	95 %
Volatiles (Vol.)	95 %		
Flammability			•
Flash Point	> 140 F (>60 C) CC (Closed Cup)	UEL	73 % (Formaldehyde)
LEL	7 % (Formaldehyde)	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 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

May react violently if mixed with phenol, strong acid and alkali or oxidizing agents.

### **Hazardous decomposition products**

No data available

## **Section 11 - Toxicological Information**

## Information on toxicological effects

Components			
	Acute Toxicity: Ingestion/Oral-Rat LD50 • 100 mg/kg; Inhalation-Rat LC50 • 203 mg/m³; Peripheral Nerve and Sensation:Spastic paralysis with or without sensory change; Behavioral:Convulsions or effect on seizure threshold; Behavioral:Excitement; Inhalation-Rat LC50 • 250 ppm 4 Hour(s); Inhalation-Rat TCLo • 15 ppm; Sense Organs and Special Senses:Olfaction:Tumors; Lungs, Thorax, or Respiration:Sputum;		

Formaldehyde (N/A)	50-00-0	Gastrointestinal: Decreased motility or constipation; Skin-Rabbit LD50 • 270 μL/kg; Irritation: Eye-Rabbit • 10 mg • Severe irritation; Mutagen: Mutation in Mammalian Somatic Cells • Unreported Route-Mouse • Lymphocyte (Somatic cell) • 74 mg/L; Reproductive: Inhalation-Rat TCLo • 12 μg/m³ 24 Hour(s)(15D pre/1-22D preg); Reproductive Effects: Effects on Newborn: Growth statistics (e.g., reduced weight gain); Reproductive Effects: Effects on Newborn: Other postnatal measures or effects; Tumorigen / Carcinogen: Inhalation-Rat • 15 ppm 6 Hour(s) 78 Week(s)-Intermittent; Tumorigenic: Carcinogenic by RTECS criteria; Sense Organs and Special Senses: Olfaction: Tumors
Methanol (N/A)	67-56-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5600 mg/kg; Inhalation-Rat LC50 • 64000 ppm 4 Hour(s); Skin-Rabbit LD50 • 15800 mg/kg; Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; Mutagen: Cytogenetic analysis • Ingestion/Oral-Mouse • 1 g/kg; DNA damage • Ingestion/Oral-Rat • 10 µmol/kg; Reproductive: Inhalation-Mouse TCLo • 1500 ppm 6 Hour(s)(7-9D preg); Reproductive Effects: Specific Developmental Abnormalities: Central nervous system; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 1000 ppm 2 Year(s)-Intermittent; Tumorigenic: Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration: Tumors; Tumorigenic: Increased incidence of tumors in susceptible strains
Proprietary (N/A)	Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2500 mg/kg; Behavioral:Convulsions or effect on seizure threshold; Behavioral:Ataxia; Irritation: Skin-Human • 15 mg 3 Day(s)-Intermittent • Mild irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 1000 mg/kg 10 Day(s)-Intermittent; Kidney, Ureter, and Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis); Reproductive: Ingestion/Oral-Rat TDLo • 76 mg/kg (20D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Ingestion/Oral-Rat TDLo • 3260 mg/kg (1-20D preg); Reproductive Effects:Specific Developmental Abnormalities:Central nervous system
<i>Proprietary</i> (N/A)	Proprietary	Irritation: Eye-Rabbit • 100 mg • Severe irritation
Proprietary (N/A)	Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1200 mg/kg; Multi-dose Toxicity: Ingestion/Oral-Rabbit TDLo • 22680 mg/kg 12 Week(s)-Intermittent; Blood:Leukopenia; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol); Blood:Changes in erythrocyte (RBC) count; Reproductive: Ingestion/Oral-Rat TDLo • 16750 µg/kg (30D male); Reproductive Effects:Paternal Effects:Testes, epididymis, sperm duct; Reproductive Effects:Paternal Effects:Prostate, seminal vesicle, Cowper's gland, accessory glands
Proprietary (N/A)	Proprietary	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5000 mg/kg; Behavioral:General anesthetic; Inhalation-Rat LC50 • 16000 ppm 8 Hour(s); Inhalation-Guinea Pig TCLo • 980 mg/m³ 24 Hour(s); Sense Organs and Special Senses:Ear:Other; Behavioral:General anesthetic; Lungs, Thorax, or Respiration:Other changes; Skin-Rabbit LD50 • 12800 mg/kg; Irritation: Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg • Mild irritation; Multi-dose Toxicity: Inhalation-Mouse TCLo • 5000 ppm 6 Hour(s) 13 Week(s)-Intermittent; Behavioral:General anesthetic; Behavioral:Ataxia; Liver:Changes in liver weight; Inhalation-Rat TCLo • 1000 mg/m³ 6 Hour(s) 4 Week(s)-Intermittent; Sense Organs and Special Senses:Eye:Optic nerve neuropathy; Inhalation-Rat TCLo • 500 mg/m³ 4 Hour(s) 122 Day(s)-Intermittent; Liver:Multiple effects; Kidney, Ureter, and Bladder:Other changes; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Inhalation-Rat TCLo • 20 mg/m³ 24 Hour(s) 90 Day(s)-Continuous; Brain and Coverings:Other degenerative changes; Lungs, Thorax, or Respiration:Other changes; Liver:Multiple effects; Inhalation-Rat TCLo • 100 mg/m³ 4 Hour(s) 17 Week(s)-Intermittent; Kidney, Ureter, and Bladder:Other changes in urine composition; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol); Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:True cholinesterase; Mutagen: Cytogenetic analysis • Inhalation-Rat • 1030 µg/m³ 16 Week(s)-Intermittent; Reproductive: Inhalation-Rat TCLo • 3500 ppm 7 Hour(s)(1-19D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Inhalation-Rat TCLo • 10000 ppm 7 Hour(s)(1-19D preg); Reproductive Effects:Effects on Fertility:Pre-implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Fetal death

GHS Properties	Classification

Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal 3 - ATEmix (dermal) = 883 mg/kg; Acute Toxicity - Inhalation 3 - ATEmix (InhI) = 1002 ppmV/4H; Acute Toxicity - Oral 4 - ATEmix (oral) = 398 mg/kg		
Aspiration Hazard	OSHA HCS 2012 • Data lacking		
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 1A		
Germ Cell Mutagenicity	OSHA HCS 2012 • Germ Cell Mutagenicity 1B		
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Corrosion 1C		
Skin sensitization	OSHA HCS 2012 • Skin Sensitizer 1A		
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1; Specific Target Organ Toxicity Repeated Exposure 2		
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 2		
Toxicity for Reproduction	OSHA HCS 2012 • Toxic to Reproduction 1B		
Respiratory sensitization	OSHA HCS 2012 • Data lacking		
Serious eye damage/Irritation	OSHA HCS 2012 • Serious Eye Damage 1		

### **Potential Health Effects** Inhalation

Acute (Immediate)

**Chronic (Delayed)** 

Toxic if inhaled. May cause corrosive burns - irreversible damage.

skin sensitization. Symptoms include redness, and skin rash.

Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

Toxic in contact with skin. Causes severe skin burns and eve damage. May cause

#### Skin

Acute (Immediate)

**Chronic (Delayed)** 

Eye

Acute (Immediate)

**Chronic (Delayed)** 

Causes serious eve damage.

Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

Repeated or prolonged exposure to corrosive materials will cause dermatitis.

#### Ingestion

Other

Acute (Immediate)

- **Chronic (Delayed)**
- Acute (Immediate)

**Chronic (Delayed)** 

**Mutagenic Effects** Carcinogenic Effects

- Harmful if swallowed. May cause irreversible damage to mucous membranes.
- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal distrubances.
- 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.
- 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. Boric acid may cause effects on the kidneys.
- Repeated and prolonged exposure may cause mutagenic effects.
- Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects					
	CAS OSHA IARC NTP				
Formaldehyde	50-00-0	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen	

#### **Reproductive Effects**

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Repeated and prolonged exposure may affect the reproductive system.

### **Section 12 - Ecological Information**

### **Toxicity**

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

### Persistence and degradability

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

### Bioaccumulative potential

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

### Mobility in Soil

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

#### Other adverse effects

 Non-mandatory section - information about this substance not complied 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	NDA	LIMITED QUANTITY-NOT REGULATED	LIMITED QUANTITY-NOT REGULATED	NDA	NDA
TDG	NDA	LIMITED QUANTITY-NOT REGULATED	LIMITED QUANTITY-NOT REGULATED	NDA	NDA

Special precautions for user

None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Contact Kelco Supply

## Section 15 - Regulatory Information

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

Format: GHS Language: English (US) WHMIS, OSHA HCS 2012

### 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	
Formaldehyde	50-00-0	Yes	No	Yes	
Proprietary	Proprietary	Yes	No	Yes	
Methanol	67-56-1	Yes	No	Yes	
Proprietary	Proprietary	No	No	No	

### Canada

oor		
Canada - WHMIS - Classifications of Substances		
Proprietary	Proprietary	B2
• Proprietary	Proprietary	Not Listed
Formaldehyde	50-00-0	A, B1, D1A, D2A, D2B; B3, D1A, D2A, D2B, E (regulated under Formol)
• Proprietary	Proprietary	B2, D2B (including 70%)
Methanol	67-56-1	B2, D1B, D2A, D2B (including 28%)
• Proprietary	Proprietary	D2A
• Proprietary	Proprietary	Not Listed
Canada - WHMIS - Ingredient Disclosure List		
Proprietary	Proprietary	1 %
Proprietary	Proprietary	1 %
Formaldehyde	50-00-0	0.1 %
Proprietary	Proprietary	1 %
Methanol	67-56-1	1 %
Proprietary	Proprietary	1 %
Proprietary	Proprietary	Not Listed

#### **Environment**

Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Formaldehyde	50-00-0	Priority Substance List 2 (substance considered toxic)
Proprietary	Proprietary	Not Listed
Methanol	67-56-1	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed

### **United States**

Labor U.S OSHA - Process Saf	ety Management - Highly Hazardous Chemicals		
<ul> <li>Proprietary</li> </ul>		Proprietary	Not Listed
<ul> <li>Proprietary</li> </ul>		Proprietary	Not Listed
Formaldehyde		50-00-0	1000 lb TQ

<ul><li> Proprietary</li><li> Methanol</li><li> Proprietary</li><li> Proprietary</li></ul>	Proprietary 67-56-1 Proprietary Proprietary	Not Listed Not Listed Not Listed Not Listed
U.S OSHA - Specifically Regulated Chemicals		
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
		2 ppm STEL (See 29 CFR 1910.1048, 15 min); 0.5 ppm
Formaldehyde	50-00-0	Action Level (See 29 CFR 1910.1048); 0.75 ppm TWA (See 29 CFR 1910.1048)
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed

Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Formaldehyde	50-00-0	
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Formaldehyde	50-00-0	100 lb final RQ; 45.4 kg final RQ
Proprietary	Proprietary	Not Listed
Methanol	67-56-1	5000 lb final RQ; 2270 kg final RQ
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Formaldehyde	50-00-0	Not Listed
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Formaldehyde	50-00-0	100 lb EPCRA RQ
Proprietary	Proprietary	Not Listed
Methanol	67-56-1	Not Listed

• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs	Drangiatory	Not Listed
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Formaldehyde	50-00-0	500 lb TPQ
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Formaldehyde	50-00-0	0.1 % de minimis concentration
• 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
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Formaldehyde	50-00-0	Not Listed
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	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
Formaldehyde	50-00-0	carcinogen, initial date 1/1/88 (gas)
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Formaldehyde	50-00-0	Not Listed
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	developmental toxicity, initial date 3/16/12

• 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
Formaldehyde	50-00-0	Not Listed
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	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
• Formaldehyde	50-00-0	40 μg/day NSRL (gas)
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	Not Listed
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Formaldehyde	50-00-0	Not Listed
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	Not Listed
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
• Formaldehyde	50-00-0	Not Listed
• Proprietary	Proprietary	Not Listed
Methanol	67-56-1	Not Listed
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	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**

Last Revision Date

Preparation Date
Disclaimer/Statement of
Liability

- 02/September/2022
- 01/May/2012
- 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