



INNOVATORS IN COMPOUNDING
Coquitlam, British Columbia. V3K 6C2
Ferndale, Washington. 98248

GHS 2017

Safety Data Sheet

FM100X

Xenex Laboratories Inc. GHD 2017 Safety Data Sheet FM100X

FORMALDEHYDE, 37% LIQUID TECH (12-15% Methanol)

Page 1 of 9

Section 1: Chemical Product and Company Identification

Catalog Name / Trade Name	FORMALDEHYDE, 37% LIQUID TECH (12-15% Methanol)	Catalog Numbers:	FM100; FM100D; FM100F; FM101; FM102;
Commercial Names:	No data available	Chemical Family:	No data available
Synonyms:	No data available	CAS #:	No data available
Chemical Name:	No data available	RTECS:	No data available
Chemical Formula:	No data available	TSCA:	No data available
Supplier:	Xenex Laboratories Inc. 2402 Canoe Avenue Coquitlam, BC. V3K 6C2. Canada Ph: (604) 552 3031 Ph: (800) 663 1002 Fax: (888) 552 4993	Emergency Contact:	1-703-527-3887 (CHEMTREC)

Section 2: Hazards Identification

GHS Globally Harmonized System of Classification and Labelling of Chemicals

Classification

Flammable liquids (Category 4)
Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 3)
Acute toxicity, Dermal (Category 3)
Skin corrosion/irritation (Sub-category 1B)
Serious eye damage/eye irritation (Category 1)
Skin sensitisation (Category 1)
Germ cell mutagenicity (Category 2)
Carcinogenicity (Category 1B)
Specific target organ toxicity - single exposure (Category 1)
Acute aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements

Pictograms



Signal Word: Danger

Hazard Statements:	H227	Combustible liquid
	H301	Toxic if swallowed
	H311	Toxic in contact with skin
	H331	Toxic if inhaled
	H314	Causes severe skin burns and eye damage
	H317	May cause an allergic skin reaction
	H341	Suspected of causing genetic defects
	H350	May cause cancer
	H370	Causes damage to organs
	H402	Harmful to aquatic life
Precautionary Statements:	P201	Obtain special instructions before use
	P202	Do not handle until all safety precautions have been read and understood
	P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
	P260	Do not breathe dust/fume/gas/mist/vapours/spray
	P264	Wash ... thoroughly after handling
	P270	Do not eat, drink or smoke when using this product
	P271	Use only outdoors or in a well-ventilated area
	P272	Contaminated work clothing should not be allowed out of the workplace
	P273	Avoid release to the environment
	P280	Wear protective gloves/protective clothing/eye protection/face protection
		IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
	P310	Immediately call a POISON CENTER or doctor/physician
	P333+313	If skin irritation or a rash occurs; Get medical advice/attention
	P370+378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
	P403	Store in a well ventilated place
	P405	Store locked up
	P501	Dispose of contents/ container to an approved waste disposal plant.

WHMIS: Workplace Hazardous Materials Information System:**Classification**

CLASS B-3 Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

CLASS D-1B Toxic Material

CLASS D-2A Very Toxic Material

CLASS D-2B Toxic Material

CLASS E Corrosive Material

Pictograms**DSCL:****Risk Phrases:****Safety Phrases:**

Dangerous Substances
Classification and Labeling

DSCL Pictograms

HMIS

Personal Protective Equipment

NFPA

Health Hazard: 3

Fire Hazard: 2

Reactivity: 0

Personal Protection:

Potential Acute
Health Effects:

Oral LD50
No data available
Inhalation LC50
No data available
Dermal LD50
No data available
Other information on acute toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
Eyes: No data available
Respiratory or skin sensitisation
May cause allergic skin reaction.
May cause sensitisation by skin contact.

Potential Chronic
Health Effects:

No data available

Section 3: Composition and Information on Ingredients

Chemical Name / Ingredient Name:	CAS Number	% by Weight:
Formaldehyde	50-00-0	37
Methanol	67-56-1	>= 10 - < 15 %
Water	7732-18-5	<=50

Section 4: First aid Measures

Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Serious
Inhalation:

No data available

Skin Contact:

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Serious
Skin Contact:

No data available

Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
Serious Eye Contact:	No data available
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Serious Ingestion:	No data available

Section 5: Fire and Explosion Data

Suitable extinguishing media and Instructions:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media:	No data available
Products of Combustion:	No data available
Special Protective Equipment:	Wear self-contained breathing apparatus for firefighting if necessary.
Flammability of the Product:	No data available
Autolgnition Temperature:	No data available
Flash Points:	No data available
Flammable Limits:	No data available
Fire Hazards in Presence of Various Substances:	No data available
Special Remarks on Fire Hazards:	No data available
Explosion Hazards in Presence of Various Substances:	No data available
Special Remarks on Explosion Hazards:	No data available

Section 6: Accidental Release Measures

Personal Precautions:	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Enviromental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleanup:

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

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

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8: Exposure controls / Personal Protection

Exposure Limits	Ingredient	Definition:	Units:	Measure:	Athority:	Jurisdiction:
	Formaldehyde	OEL	ppm	1.00	OHS	Canada
	Methanol	OEL	ppm	200.00	OHS	Canada

Engineering Controls:

Use mechanical exhaust or laboratory fumehood to avoid exposure.

Personal Protection:**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 480 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.2 mm

Break through time: 60 min

Material tested: Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Personal Protection
incase of a Large
Spill:**

No data available

Section 9: Physical and Chemical Properties

Property	Value
Form	liquid, clear
Color	colourless
Boiling Point (°C)	100 °C (212 °F)
Flash Point	64 °C (147 °F) - closed cup
Ignition temperature	420 °C (788 °F)
Lower explosion limit	7 %(V)
Upper explosion limit	70 %(V)
Vapour pressure	53 hPa (40 mmHg) at 39 °C (102 °F)
Density	1.09 g/cm3 at 25 °C (77 °F)
Water solubility	completely soluble
Partition coefficient: n-octanol/water	log Pow: 0.35
Relative vapour density	1.04 - (Air = 1.0)
Odour	pungent
Evaporation Rate	1

Section 10: Stability and Reactivity Data

Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Heat, flames and sparks
Incompatibe materials:	Strong oxidizing agents, Aniline, Phenol, Isocyanates, Acid anhydrides, Strong acids, Strong bases, Amines, Peroxides, Acid chlorides, Alkali metals, Reducing agents
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11: Toxicological Information**Routes of Entry:** No data available

Potential Acute Health Effects:	Oral LD50 No data available Inhalation LC50 No data available Dermal LD50 No data availableSigma-Aldrich - 252549 Page 8 of 10 Other information on acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation Eyes: No data available Respiratory or skin sensitisation May cause allergic skin reaction. May cause sensitisation by skin contact.
Potential Chronic Health Effects:	No data available
Chronic Effects on Humans:	No data available
Special Remarks on Chronic Effects On Humans:	No data available
Other Toxic Effects on Humans:	No data available
Special Remarks on Other Toxic Effects on Humans:	No data available
CARCINOGENIC EFFECTS:	IARC: 1 - Group 1: Carcinogenic to humans (Formaldehyde)
MUTAGENIC EFFECTS:	No data available
TERATOGENIC EFFECTS:	No data available
DEVELOPMENTAL TOXICITY	No data available
Special Remarks on Toxicity to Animals:	No data available

Section 12: Ecological Information	
Ecotoxicity:	No data available
Persistence and degradability:	No data available

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Other adverse effects:

Harmful to aquatic life.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Section 13: Disposal Considerations**WasteDisposal:**

Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.
Offer
surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging
Dispose of as unused product.

Section 14: Transportation Information**DOT Classification****DOT CLASS 8.1**

Corrosive substances
Substances which:
cause full thickness destruction of intact skin tissue on exposure time of less than 4 hours; or
exhibit a corrosion rate of more than 6.25 mm per year on either steel or aluminium surfaces at 55 °C

DOT Pictograms**TSCA:**

No data available

Identification:

No data available

Enviromental Hazards:

No data available

Special Provisions For Transport:

No data available

Special Precautions:

No data available

Section 15: Other Regulatory Information**Federal and State Regulations:**

No data available

California
Proposition 65
Warnings:

No data available

Other Regulations:

WHMIS Classification
B3 Combustible Liquid Combustible Liquid
D1B Toxic Material Causing Immediate and Serious
Toxic Effects
Toxic by ingestion
D2A Very Toxic Material Causing Other Toxic Effects Toxic by skin absorption
D2B Toxic Material Causing Other Toxic Effects Toxic by inhalation.
E Corrosive Material Carcinogen
Specific target organ toxicity - single exposure
Moderate eye irritant
Skin sensitiser
Mutagen
Corrosive to skin
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the
MSDS contains all the information required by the Controlled Products Regulations

Section 16: Other Information

MSDS Code:

FM100X

References:

No data available

Other Special
Conciderations:

No data available

Authored