

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard 29CFR 1910.1200 and WHMIS requirements. Standard must be consulted for specific requirements.

THERMEX-FR

QUICK IDENTIFIER
Common Name: used on label and List.

Page 1 of 4

SECTION 1- PRODUCT / COMPANY IDENTIFICATION

Chemco Acquisition, Inc.
4191 Grandview Rd.
P.O. Box 875
Ferndale, WA 98248
Phone: (360)-366-3500
Fax: (360)-366-3831

HMIS Coding

H	
HEALTH	2
F	
FLAMMABILITY	2
R	
REACTIVITY	0
PERSONAL	
PROTECTION	H

Emergency Telephones: 1-800-424-9300 CHEMTREC Date Prepared Sept 2001
International: 703-527-3887

SECTION 2 – HAZARDOUS INGREDIENTS / IDENTITY

Hazardous Components (Chemical & Common Name)	CAS No.	% Opt.	OSHA PEL	ACGIH TLV	Other Exposure Limits
Formaldehyde	50-00-0	<1.0	None*	3ppm©	3 ppm – OSHA TWA 5 ppm – OSHA Ceiling 30 min @ 10 ppm – OSHA max
Methanol	67-56-1	<5.0	200ppm	200ppm-Skin	200ppm – OSHA TWA 250ppm – OSHA STEL 250ppm – ACGIH STEL
Phosphoric Acid	7664-38-2		1mg/m3	1mg/m3	3 mg/m3-TVL/STEL
-At 16% dilution Formaldehyde	50-00-0	<.25	None*	3ppm©	3 ppm – OSHA TWA 5 ppm – OSHA Ceiling 30 min @ 10 ppm – OSHA max
Methanol	67-56-1	<1.25	200ppm	200ppm-Skin	200ppm – OSHA TWA 250ppm – OSHA STEL 250ppm – ACGIH STEL
Phosphoric Acid	7664-38-2		1mg/m3	1mg/m3	3 mg/m3-TVL/STEL

© - Denotes ceiling limit

*- OSHA has identified 0.5 ppm as the "Action Level" and has stated that a concentration of 100 ppm is immediately dangerous to life and health. The odor threshold for formaldehyde is 0.8-1ppm.

Note: Percentages given are provided to aid in compliance with SARA Title III reporting requirements.

SECTION 3 – HAZARDS IDENTIFICATION

Effects of Exposure	May be harmful if absorbed through the skin. Should not be hazardous by inhalation under normal use. However, ingestion will cause irritation to mucous membranes or GI tract and may cause blindness. Will irritate if exposed to the eyes.
Appearance and odor	Thick green liquid / mild odor.
Conditions Aggravated by Exposure	Chronic or repetitive exposure will cause sensitization or allergic reaction in some people. Formaldehyde is a suspected carcinogen. Methanol, which may be produced upon combustion, is poisonous and can cause blindness if absorbed through the skin, inhaled, or swallowed.

SECTION 4 – FIRST AID PROCEDURES

1. Acute	May cause irritation to eyes, skin or mucous membranes	2. Chronic	May cause damage to the GI tract, mucous membranes, or may cause blindness.
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Signs and symptoms of Exposure May be harmful if absorbed through the skin. Should not be hazardous by inhalation under normal use. However, ingestion will cause irritation to mucous membranes or GI Tract and may cause blindness. Will irritate if exposed to the eyes.

Routes Of Entry
Inhalation – Remove to fresh air.
Eyes – Flush with water for a minimum of 20 minutes, raising and lowering both lids.
Skin – Wash with soap and water a minimum of 15 minutes.
Ingestion – Dilute by drinking large amounts of water. Call a physician or poison control staff.

Material Safety Data Sheet

THERMEX-FR

Page 2 of 4

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point	119 F	Method Used	PMCC ASTM D93	Flammable Limits in Air (% by volume)	LEL Lower ~7%	UEL Upper ~70%
Auto-Ignition Temperature	~420 C	Extinguisher Media	Water, Dry Chemical, Foam, CO2			
Special Fire Fighting Procedures	Vapor is heavier than air and may settle in low places or travel outward to a source of ignition and Flashback.					
Unusual Fire and Explosion Hazards	Closed containers may rupture when heated. Use water spray to keep containers cool.					

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps to be taken in Case Material is Released or Spilled Must be conducted by personnel with adequate protective equipment. Absorb spills with sawdust, vermiculite or similar material. Wash remaining material into retaining area. Do not allow material to enter any unauthorized waterways, sewers, storm drains, etc.

SECTION 7 – HANDLING AND STORAGE

Precautions to be taken in Handling and Storage	Not harmed by freezing, but thaw frozen resin slowly and stir before using. Store in a cool, dry area away from sun and heat. Limited storage life.				
Other Precautions	Keep away from heat, light, caustics, combustibles, and reducing agents.				

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Short Term Exposure	CAC recommends safety glasses and latex or rubber gloves. If long term exposure is required the following is applicable.								
Respiratory Protection	In area of poor ventilation, use NIOSH/MSHA approved cartridge respirator								
Ventilation	Yes	Local Exhaust	Yes	Mechanical (General)	N/A	Special	N/A	Other	N/A
Protective Gloves	PVC/Nitrile or Neoprene gloves			Eye Protection	Goggles meeting ANAI 287.1 codes or safety glasses with splashguard				
Other Protective Clothing or Equipment	PVC/Nitrile or neoprene boots								
Work Hygienic Practices	Follow good housekeeping procedures when handling material.								

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	102°C	Specific Gravity (H2O = 1)	1.430	Vapor Pressure (mm Hg)	0.1
Solubility in water	Completely Soluble	Vapor Density (Air =1)	N/A	Reactivity in Water	Not Reactive
Appearance and Odor	Thick green liquid / mild order		pH = 1.3-1.5	Melting Point	Liquid

Material Safety Data Sheet

THERMEX-FR

Page 3 of 4

SECTION 10 – STABILITY AND REACTIVITY

Stability	<input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	Conditions to Avoid	Keep away from any source of ignition or heat. Store in a cool, dry area away from sunlight.
Incompatibility (Materials to Avoid)		Do not allow to come in contact with caustics, combustibles, or reducing agents	
Hazardous Decomposition Products		Combustion may produce carbon monoxide, carbon dioxide, hydrogen cyanide, particulate Matter, aldehydes (including formaldehyde), and other organic compounds	
Hazardous Polymerization	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur		

SECTION 11 – TOXICOLOGICAL INFORMATION

Oral - No data found

Dermal - No data found

Inhalation - No data found

Carcinogenicity The following component(s) is (are) considered to be carcinogenic or suspected to be carcinogenic By the National Toxicology Program, The International Agency for Research on Cancer or The Occupational Safety and Health Administration:

Formaldehyde CAS No.: 500-00-0

SECTION 12 – ECOLOGICAL INFORMATION

Ecological Fate – No data available at this time

Exposure Data – No data available at this time

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Material(s) considered hazardous wastes in connection with 40 CFR 260 to 299:

Chemical	CAS No.	Haz. Waste No.	RQ (lbs,kg)
Formaldehyde	500-00-0	U122	1000(454)
Methanol	67-56-1	U154	5000(2270)

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, State and local waste disposal requirements may be more restrictive or otherwise different from Federal laws and regulations.

Material Safety Data Sheet

THERMEX-FR

Page 4 of 4

SECTION 14 – TRANSPORTATION INFORMATION

Proper Shipping Name	Flammable Liquid, Corrosive, N.O.S, 3, UN 2924, PG III
Placards Required	FLAMMABLE, CORROSIVE
Identification Numbers	UN 2924
Other Shipping Information	When material is shipped in or through areas experiencing inclement weather, material should be protected from freezing.

SECTION 15 – REGULATORY INFORMATION

1 CERCLA Hazardous Substances Subject to Section 304 (Emergency Release Notification) of SARA Title III

Formaldehyde	RQ=1000lbs (454 kg)
Methanol	RQ=5000lbs (2270 kg)
Phosphoric Acid	RQ=5000lbs (2270 kg)

2 Extremely Hazardous Substances to Section 302 (Emergency Planning Notification) and Section 304 (Emergency Release Notification) of SARA Title III

Formaldehyde	TPQ=500lbs
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3 Toxic Chemicals Subject to Section 313 (Toxic Chemical Release Reporting) of SARA Title III

Formaldehyde
Methanol
Phosphoric Acid

4 TSCA Inventory – All components of this material are listed in the TSCA inventory.

5 Classification Numbers **Schedule B:** 3809.92.0000.6

SECTION 16 – OTHER INFORMATION

Label Text – FRX

Flammable Liquid, Corrosive, N.O.S.

Caution!

Do not get into eyes, on skin or in clothing.
Do not take internally; avoid breathing mist, vapor or dust

Protective Equipment

Use NOISH/MSHA approved cartridge respirator.
Wear PVC/Nitrile or Neoprene gloves.

Special Precautions & Spill Procedures

In case of spill absorb in sand or other absorbent material and shovel into suitable containers for disposal.
Dispose according to Federal, State, and Local regulations.

General Instructions

Protect from Freezing. Recommended Temperature 38 – 90 ° F. For industrial use only.

Revision Date: 9/20/01

Note: The values given are typical but may vary slightly between batches.

Formaldehyde is known by the State of California to cause cancer.

The data in this Material Safety Data Sheet relates only to specific material designated herein and does not relate to use in combination with any other material in any process the facts stated and the recommendations contained herein are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application for our products nor anticipate every variation encountered in manufacturing equipment and methods. For the same reason, the products discussed are sold without warranty, express or implied and on the condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes. Seller shall not be liable for any injury, loss or damage, direct or consequential arising out of the use of or the inability to use the product. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringements of any patent.