



EUCLID CHEMICAL

EUCO 700

Version 4.

Print Date 12/21/2011

REVISION DATE: 12/14/2010

This is a kit that contains the following components:

EUCO 700 PART A

EUCO 700 PART B

**EUCO 700 PART A**Version 4.
REVISION DATE: 12/14/2010

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SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION**Product Information**Trade name : EUCO 700 PART A
Product code : 042A 26Supplier : Euclid Canada
2835 Grande-Allée
St-Hubert, QC J4T 2R4Telephone : 1-800-667-0920
Emergency Phone: : (613) 996-6666**Preparation Information**Prepared by: : Sewnauth Raghunandan
Date: : 12/14/2010
Telephone : (416) 421-3300**SECTION 2 - HAZARDS IDENTIFICATION****Emergency Overview**

Gray. Liquid solution. Vapor may irritate respiratory tract. May cause nausea, headaches, and dizziness. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of EntryInhalation : Vapor may irritate respiratory tract. May cause nausea, headaches, and dizziness.
Eyes : Direct contact may cause mild irritation. May cause temporary injury.
Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.
Skin : May cause sensitization resulting in irritation, itching and redness.**Aggravated Medical Conditions**

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Prolonged or repeated exposure to epoxy resin can cause irritation to skin, eyes, skin sensitization, temporary eye injury. Certain epoxy resins are reported to be mutagenic in some laboratory tests. Repeated inhalation of nonyl phenol may cause lung damage. Repeated skin contact with nonyl phenol may cause skin irritation and dermatitis. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Ingestion, Lung**SECTION 3 : HAZARDOUS INGREDIENTS**

**EUCO 700 PART A**

Version 4.

Print Date 12/21/2011

REVISION DATE: 12/14/2010

Chemical Name	CAS-No.	Weight % Range
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Bisphenol A Polyglycidyl Ether Resin	25068-38-6	40.0 - 70.0
4-Nonylphenol	84852-15-3	7.0 - 13.0
Epichlorohydrin castor oil based epoxy resin	74398-71-3	5.0 - 10.0
Titanium dioxide	13463-67-7	1.0 - 5.0

The ingredients listed above are hazardous as defined in the controlled products regulation. (CPR).

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation	:	Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
Eye contact	:	Flush with water for 15 minutes. If irritation persists, get medical attention.
Skin contact	:	Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
Ingestion	:	Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5: FIRE / EXPLOSION HAZARDS

Flash point	:	> 200 °F, > 93 °C
Method	:	Setaflash Closed Cup
Lower explosion limit	:	Not available.
Upper explosion limit	:	Not available.
Autoignition temperature	:	Not available.
Means of Extinction	:	If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion products	:	Smoke, fumes. Carbon monoxide and carbon dioxide can form.
Protective equipment for firefighters	:	Water may be used to cool containers to minimize pressure build-up. Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
Fire and explosion conditions	:	Closed container, may burst when exposed to extreme heat. Empty containers may contain ignitable vapors. Vapor concentrations in enclosed areas may ignite explosively. Vapors may travel to sources of ignition and flashback.

SECTION 6 - SPILLS / LEAKS / ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

**EUCO 700 PART A**Version 4.
REVISION DATE: 12/14/2010

Print Date 12/21/2011

SECTION 7 - HANDLING AND STORAGE

Store under dry warehouse conditions away from heat and all ignition sources. Store in a cool, well ventilated area. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protection equipment**

- Respiratory protection** : Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection** : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection** : Chemical splash goggles.
- Protective measures** : Use professional judgment in the selection, care, and use.
- Engineering measures** : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use general ventilation and/ or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
4-Nonylphenol	84852-15-3			
Titanium dioxide	13463-67-7	Ontario TWAEV: ACGIH TWA:	10 mg/m3 10 mg/m3	Total dust.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Physical State** : Liquid
- Form** : Liquid solution
- Color** : Gray
- Odor** : Slight Phenolic
- pH** : Not available.
- Vapour pressure** : Not available.
- Vapor density** : Heavier than air
- Melting point/range** : Not available.
- Freezing point** : Not available.



EUCO 700 PART A

Version 4.
REVISION DATE: 12/14/2010

Print Date 12/21/2011

Boiling point/range : Not available.
Water solubility : Negligible
Evaporation Rate: : Not available.
Specific Gravity : 1.2
% Volatile Weight : 10 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid : Epoxy curing agents.Amines and oxidizing agents.
Stability : Material is stable under normal storage, handling, and use.
Hazardous polymerization : Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

No Data Available

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Disposal Method : Dispose as hazardous waste according to all local, state, federal and provincial regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:
NOT REGULATED

SECTION 15 - REGULATORY INFORMATION

North American Inventories:
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.
All components are listed or exempt from the TSCA inventory.



EUCO 700 PART A

Version 4.
REVISION DATE: 12/14/2010

Print Date 12/21/2011

Canadian Regulations:

WHMIS Classification : D2B, D2A
This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Other Regulations:

When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 0.0000 g/l

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	2
Flammability	1
Reactivity	1
PPE	

0 = Minimum
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Sewnauth Raghunandan

Legend

- ACGIH - American Conference of Governmental Hygienists
- DOT - Department of Transportation
- DSL - Domestic Substance List
- EPA - Environmental Protection Agency
- HMIS - Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- MSHA - Mine Safety Health Administration
- NDSL - Non-Domestic Substance List
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- PEL - Permissible Exposure Limit
- RCRA - Resource Conservation and Recovery Act
- STEL - Short Term Exposure Limit
- TLV - Threshold Limit Value
- TSCA - Toxic Substances Control Act
- TWA - Time Weighted Average
- V - Volume
- VOC - Volatile Organic Compound
- WHMIS - Workplace Hazardous Materials Information System

**EUCO 700 PART B**Version 4.
REVISION DATE: 12/14/2010

Print Date 12/21/2011

SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION**Product Information**Trade name : EUCO 700 PART B
Product code : 042A 26Supplier : Euclid Canada
2835 Grande-Allée
St-Hubert, QC J4T 2R4Telephone : 1-800-667-0920
Emergency Phone: : (613) 996-6666

Product use : Curative

Preparation InformationPrepared by: : Sewnauth Raghunandan
Date: : 12/14/2010
Telephone : (416) 421-3300**SECTION 2 - HAZARDS IDENTIFICATION****Emergency Overview**

Gray. Liquid. May cause slight irritation to the respiratory system. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause slight irritation to the respiratory system.
Eyes : Vapors or liquid may cause tearing, blurred vision, severe irritation, and possible chemical burns.
Ingestion : May cause gastrointestinal irritation, nausea, and vomiting. May cause chemical burns to stomach, mouth, nose, and throat.
Skin : May cause itching, reddening, inflammation. May cause severe burns, blistering and skin damage. May cause sensitization resulting in irritation, itching and redness. May cause a rash.

Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

May cause sensitization by contact. Prolonged skin contact may cause irritation, burns or dermatitis. Repeated overexposure to vapors and/or material may injure the liver, kidneys and respiratory system unless suitable engineering controls and/or personal protective equipment are used. May aggravate persons sensitized to amines. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust

**EUCO 700 PART B**

Version 4.

Print Date 12/21/2011

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above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. Repeated inhalation of nonyl phenol may cause lung damage. Repeated skin contact with nonyl phenol may cause skin irritation and dermatitis. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

SECTION 3 : HAZARDOUS INGREDIENTS

Chemical Name	CAS-No.	Weight % Range
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4-Nonylphenol	84852-15-3	15.0 - 40.0
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N Amino ethyl piperazine	140-31-8	10.0 - 30.0
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Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1.0
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The ingredients listed above are hazardous as defined in the controlled products regulation. (CPR).

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation : Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.

Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5: FIRE / EXPLOSION HAZARDS

Flash point : > 200 °F, > 93 °C

Method : Setaflash Closed Cup

Lower explosion limit : Not available.

Upper explosion limit : Not available.

Autoignition temperature : Not available.

Means of Extinction : If water fog is ineffective, use carbon dioxide, dry chemical or foam.

Hazardous combustion products : Carbon monoxide and carbon dioxide can form. Smoke, fumes. Nitrogen oxides can form.

Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

Fire and explosion conditions : Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flashback. Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors.

**EUCO 700 PART B**Version 4.
REVISION DATE: 12/14/2010

Print Date 12/21/2011

SECTION 6 - SPILLS / LEAKS / ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Do not use in confined or poorly ventilated areas. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store under dry warehouse conditions away from heat and all ignition sources.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protection equipment**

- Respiratory protection** : Wear NIOSH/MSHA approved vapor respirator with appropriate cartridge when the vapor concentration is expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection** : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection** : Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection** : Prevent contact with shoes and clothing. Use rubber apron and overshoes.
- Protective measures** : Inspect and replace equipment at regular intervals. Use professional judgment in the selection, care, and use.
- Engineering measures** : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
4-Nonylphenol	84852-15-3			
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	Ontario TWAEV: ACGIH TWA:	0.10 mg/m3 0.025 mg/m3	Respirable fraction. Respirable fraction.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Physical State** : Liquid
- Form** : Liquid
- Color** : Gray

**EUCO 700 PART B**

Version 4.

Print Date 12/21/2011

REVISION DATE: 12/14/2010

Odor	: Mild mercaptan odor
pH	: 8 - 9
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: Not available.
Water solubility	: Negligible
Evaporation Rate:	: Not available.
Specific Gravity	: 1.2
% Volatile Weight	: 25 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid	: Oxidizing agents.Epoxies.Isocyanates.Acids.
Stability	: Material is stable under normal storage, handling, and use.
Hazardous polymerization	: Will not occur under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

No Data Available

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Disposal Method : Dispose as hazardous waste according to all local, state, federal and provincial regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:
NOT REGULATED

SECTION 15 - REGULATORY INFORMATION**North American Inventories:**

**EUCO 700 PART B**

Version 4.

Print Date 12/21/2011

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One or more components are listed on the NDSL.

All components are listed or exempt from the TSCA inventory.

This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

Canadian Regulations:

D2A, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Other Regulations:

When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 0.00 g/l

SECTION 16 - OTHER INFORMATION**HMIS Rating :**

Health	3
Flammability	1
Reactivity	1
PPE	

0 = Minimum
 1 = Slight
 2 = Moderate
 3 = Serious
 4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

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Legend

ACGIH - American Conference of Governmental Hygienists

DOT - Department of Transportation

DSL - Domestic Substance List

EPA - Environmental Protection Agency

HMIS - Hazardous Materials Information System

IARC - International Agency for Research on Cancer

MSHA - Mine Safety Health Administration

NDSL - Non-Domestic Substance List

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

V - Volume

VOC - Volatile Organic Compound

WHMIS - Workplace Hazardous Materials Information System