

The Euclid Chemical Company

Print Date 11/29/2005

# E3 G - 2 CU FT KIT\*\*

Version 1 REVISION DATE: 05/23/2005

This is a kit that contains the following components:

E3 G PART A E3 G - 2 CU FT UNIT PART B E3 G,F,& HP PART C



The Euclid Chemical Company

# E3 G PART A

Version 1 REVISION DATE: 05/23/2005 Print Date 11/29/2005

#### SECTION 1 - PRODUCT IDENTIFICATION

Trade name Product code	: E3 G PART A : 040G 02
COMPANY	: Euclid Chemical Company 19218 Redwood Road Cleveland, OH 44110
Telephone Emergency Phone:	<ul> <li>: 1-800-321-7628</li> <li>: U.S. only: 1-800-255-3924</li> <li>International Users Call Collect: 1-813-248-0585</li> </ul>

#### **SECTION 2 - HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Clear. Liquid. May cause slight irritation to the respiratory system. Generally not required under normal conditions of use. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

#### Acute Potential Health Effects/ Routes of Entry

Inhalation:May cause slight irritation to the respiratory system.Eyes:Slightly irritating.Ingestion:May cause gastrointestinal irritation, nausea, and vomiting.Skin:May cause sensitization.

#### **Aggravated Medical Conditions**

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

#### **Chronic Health Effects**

May cause sensitization by contact. 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. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Ingestion

### **SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %	
Epichlorohydrin polymer	25068-38-6	> 60.0	
Alkyl glycidyl ether	68609-96-1	15.0 - 40.0	

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### SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation : Generally not required under normal conditions of use.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 with 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 FIGHTING MEASURES

Flash point Method	:	> 200 ℃, > 392 ℉ Setaflash Closed Cup
Lower explosion limit	:	1.40 %(V) Solvent
Upper explosion limit	:	Not available.
Autoignition temperature	:	Not available.
Extinguishing media	:	This product is not expected to burn under normal conditions of use.
Hazardous combustion products	:	Smoke, fumes.
Protective equipment for firefighters	:	Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
Fire and explosion conditions	:	This product not expected to ignite under normal conditions of use.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

### **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. Store in sealed containers in a dry, ventilated warehouse location above freezing.

### **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

Personal protection equipment

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Respiratory protection	: Not required under normal conditions of use	).	
Hand protection	: Use suitable impervious rubber or vinyl glov reduce exposure.	es and protective apparel to	
Eye protection	: Wear appropriate eye protection.		
Skin and body protection	: Not required.		
Protective measures	: Use professional judgment in the selection, not normally required.	care, and use.Other equipmer	
Engineering measures	: General ventilation is sufficient.		
Exposure Limits No known components wit	n exposure limits.		
Form	: Liquid		
Color	: Clear		
Odor	: Epoxy		
рН	: Not available.		
Vapour pressure		Not available.	
Vapor density	: Heavier than air		
Melting point/range	: Not available.		
Freezing point	: Not available.		
Boiling point/range	: > 500 °F, > 260 °C		
Water solubility	: Insoluble		
Specific Gravity	: 1.0817		
% Volatile Weight	: 0 %		
CTION 10 - REACTIVI	TY / STABILITY		
Substances to avoid	: Acids and bases.Amines.Epoxy curing age	nts.	
CTION 11 - TOXICOLO	GICAL INFORMATION		
No Data Available			
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#### SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal Method : Dispose of hazardous waste according to all local, state, federal and provincial regulations.Not regulated under RCRA. Dispose of in compliance with state and local regulations. Do not incinerate.

#### SECTION 14 - TRANSPORTATION / SHIPPING DATA

#### TDG / DOT Shipping Description:

NOT REGULATED

#### **SECTION 15 - REGULATORY INFORMATION**

#### North American Inventories:

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.

#### U.S. Federal Regulations:

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SARA 313 Components	:	None present or none present in regula	ated quantities.
SARA 311/312 Hazards	:	Based on an evaluation of the compone contain hazardous ingredients identified	
OSHA Hazardous Components	:		
OSHA Flammability	:	IIIB	
Regulatory VOC (less water and		: 0 g/l	
exempt solvent) VOC Method 310		: 0%	
U.S. State Regulations:			
Penn RTK Components	:	Epichlorohydrin polymer Alkyl glycidyl ether	25068-38-6 68609-96-1
NJ RTK Components	:	Epichlorohydrin polymer Alkyl glycidyl ether	25068-38-6 68609-96-1
	Cali luer	fornia to cause cancer birth defects and ne	/or other reproductive harm:
DID			

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### **SECTION 16 - OTHER INFORMATION**

#### HMIS Rating :

Health	0
Flammability	1
Reactivity	0
PPE	

 $\begin{array}{l} 0 = \text{Minimum} \\ 1 = \text{Slight} \\ 2 = \text{Moderate} \\ 3 = \text{Serious} \\ 4 = \text{Severe} \end{array}$ 

#### 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: Rich Mikol

#### Legend

ACGIH - American Conference of Governmental Hygienists CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act 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

RTK - Right To Know SARA - Superfund Amendments and Reauthorization 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

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# E3 G - 2 CU FT UNIT PART B

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#### SECTION 1 - PRODUCT IDENTIFICATION

Trade name Product code	: E3 G - 2 CU FT UNIT PART B : 040G 02
COMPANY	: Euclid Chemical Company 19218 Redwood Road Cleveland, OH 44110
Telephone	: 1-800-321-7628
Emergency Phone:	: U.S. only: 1-800-255-3924 International Users Call Collect: 1-813-248-0585
Product use	: Curative

### **SECTION 2 - HAZARDS IDENTIFICATION**

#### **Emergency Overview**

Liquid. Severely irritating to the respiratory tract. May cause chemical burns to the respiratory system. May cause coughing and wheezing. May cause nausea, headaches, and dizziness. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Remove to fresh air. Get immediate medical attention.

#### Acute Potential Health Effects/ Routes of Entry

Inhalation	<ul> <li>Severely irritating to the respiratory tract. May cause chemical burns to the respiratory system. May cause coughing and wheezing. May cause nausea, headaches, and dizziness.</li> </ul>	
Eyes	: Vapors or liquid may cause tearing, blurred vision, severe irritation, and possible chemical burns.	ł
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 Fillers are encapsulated and not expected to be released from product under normal conditions of use.

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#### Material Safety Data Sheet The Euclid Chemical Company E3 G - 2 CU FT UNIT PART B Print Date 11/29/2005 Version 1 REVISION DATE: 05/23/2005 **SECTION 3 - PRODUCT COMPOSITION Chemical Name** CAS-No. Weight % Triethylenetetramine 112-24-3 > 60.0 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. Remove to fresh air. Get immediate medical attention. 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. : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Ingestion Center or Physician immediately. SECTION 5 - FIRE FIGHTING MEASURES Flash point 300 °F, 149 °C Method Not available. ÷ Lower explosion limit : Not available. Upper explosion limit Not available. · Autoignition temperature : Not available. Extinguishing media If water fog is ineffective, use carbon dioxide, dry chemical or foam. 2 Hazardous combustion Carbon monoxide and carbon dioxide can form.Smoke, fumes.Nitrogen · products oxides can form. Protective equipment for Use accepted fire fighting techniques. Wear full firefighting protective 1 firefighters clothing, including self-contained breathing apparatus (SCBA). Product may ignite if heated in excess of its flash point.Vapors may Fire and explosion conditions 2 travel to sources of ignition and flashback.Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors. SECTION 6 - 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.

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

#### **Exposure Limits**

No known components with exposure limits.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid	
Odor	: Amine	
рН	: Not available.	
Vapour pressure	: Not available.	
Vapor density	: Heavier than air	
Melting point/range	: Not available.	
Freezing point	: Not available.	
Boiling point/range	: 530.6 ℉, 277 ℃	
Water solubility	: Negligible	
Specific Gravity	: 0.99	
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% Volatile Weight : 0 %

### **SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid

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

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

No Data Available

### **SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

### SECTION 13 - DISPOSAL CONSIDERATIONS

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

### SECTION 14 - TRANSPORTATION / SHIPPING DATA

Not available.

### **SECTION 15 - REGULATORY INFORMATION**

#### North American Inventories:

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.

#### U.S. Federal Regulations:

None present or none present in regulated quantities.

SARA 311/312 Hazards : Based on an evaluation of the components used, this product does not contain hazardous ingredients identified as per 29 CFR 1910.1200

OSHA Hazardous Components :

VOC Method 310

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OSHA Flammability	:	IIIB	
Regulatory VOC (less water an exempt solvent)	nd	:	0 g/l

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: 0%



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U.S. State Regulations: MASS RTK Components	: Triethylenetetramine	112-24-3
Penn RTK Components	: Triethylenetetramine	112-24-3
NJ RTK Components	: Triethylenetetramine	112-24-3

Chemicals known to the State of California to cause cancer birth defects and/or other reproductive harm: None known.

#### **SECTION 16 - OTHER INFORMATION**

#### **HMIS Rating :**

Health	0
Flammability	1
Reactivity	0
PPE	

0 = Minimum 1 = Slight 2 = Moderate 3 = Serious4 = 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: Rich Mikol

#### Legend

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

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# E3 G,F,& HP PART C

Version 1 REVISION DATE: 05/23/2005

#### Print Date 11/29/2005

### SECTION 1 - PRODUCT IDENTIFICATION

Trade name Product code	: E3 G,F,& HP PART C : 040G 02
COMPANY	: Euclid Chemical Company 19218 Redwood Road Cleveland, OH 44110
Telephone	: 1-800-321-7628
Emergency Phone:	: U.S. only: 1-800-255-3924
	International Users Call Collect: 1-813-248-0585

#### **SECTION 2 - HAZARDS IDENTIFICATION**

#### **Emergency Overview**

No known effects anticipated.

#### Acute Potential Health Effects/ Routes of Entry

Inhalation : Eyes : Ingestion : Skin :

#### **Aggravated Medical Conditions**

#### **Chronic Health Effects**

No known effects anticipated.

### **SECTION 3 - PRODUCT COMPOSITION**

#### **SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

# SECTION 5 - FIRE FIGHTING MEASURES

Flash point Method	:	Not available. Not available.
Lower explosion limit	:	Not available.

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Upper explosion limit Autoignition temperature Not available. Not available.

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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:

No known applicable information.

#### **SECTION 7 - HANDLING AND STORAGE**

No known applicable information.

### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits** No known components with exposure limits.

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

рН	:	Not available.	
Vapour pressure	:	Not available.	
Vapor density	:	Not available.	
Melting point/range	:	Not available.	
Freezing point	:	Not available.	
Boiling point/range	:	Not available.	
Water solubility	:	Not available.	
Specific Gravity	:	Not available.	
% Volatile Weight	:	Not available.	

### **SECTION 10 - REACTIVITY / STABILITY**

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

No Data Available



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#### **SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Not available.

#### SECTION 14 - TRANSPORTATION / SHIPPING DATA

2

Not available.

#### **SECTION 15 - REGULATORY INFORMATION**

North American Inventories:

**U.S. Federal Regulations:** 

OSHA Hazardous Components

### **SECTION 16 - OTHER INFORMATION**

#### 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: Rich Mikol

#### Legend

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ACGIH - American Conference of Governmental Hygienists	PEL - Permi	ssible Exposure Limit		
CERCLA - Comprehensive Environmental Response, Compensati Liability Act	on, and RCRA - Res	RCRA - Resource Conservation and Recovery Act		
DOT - Department of Transportation	RTK - Right	RTK - Right To Know		
DSL - Domestic Substance List	SARA - Sup	SARA - Superfund Amendments and Reauthorization Act		
EPA - Environmental Protection Agency	STEL - Shoi	STEL - Short Term Exposure Limit		
HMIS - Hazardous Materials Information System	TLV - Thres	TLV - Threshold Limit Value		
IARC - International Agency for Research on Cancer	TSCA - Toxi	TSCA - Toxic Substances Control Act		
MSHA - Mine Safety Health Administration	TWA - Time	TWA - Time Weighted Average		
NDSL - Non-Domestic Substance List	V - Volume			
NIOSH - National Institute for Occupational Safety and Health	VOC - Volat	VOC - Volatile Organic Compound		
NTP - National Toxicology Program	WHMIS - W System	orkplace Hazardous Materials Information		
OSHA - Occupational Safety and Health Administration				
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