



**EUCLID CHEMICAL**

**DURALKOTE 240 1:1 LT GRAY**

Version 4.0  
REVISION DATE: 09/03/2014

Print Date 09/04/2014

This is a kit that contains the following components:

DURALKOTE 240 1:1 PART A  
DURALKOTE 240 LIGHT GRAY 1:1 PART B





**DURALKOTE 240 1:1 PART A**

Version 4.0  
REVISION DATE: 09/03/2014

Print Date 09/04/2014

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : DURALKOTE 240 1:1 PART A  
Product code : TD2379104501NC  
  
COMPANY : Euclid Chemical Company  
19218 Redwood Road  
Cleveland, OH 44110  
  
Telephone : 1-800-321-7628  
Emergency Phone : U.S. only: 1-800-424-9300  
International Users Call Collect: 1-703-527-3887

**SECTION 2 - HAZARDS IDENTIFICATION**

**Emergency Overview**

Clear to Yellow. Liquid. May cause slight irritation to the respiratory system. 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 %
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	> 60.0
Aliphatic glycidyl ether	2461-15-6	10.0 - 30.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

**DURALKOTE 240 1:1 PART A**

Version 4.0  
 REVISION DATE: 09/03/2014

Print Date 09/04/2014

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 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	:	> 200 °F, > 93 °C
Method	:	Setaflash Closed Cup
Lower explosion limit	:	Not available.
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**

Respiratory protection	:	Not required under normal conditions of use.
Hand protection	:	Use suitable impervious rubber or vinyl gloves and protective apparel to reduce exposure.
Eye protection	:	Wear appropriate eye protection.
Skin and body protection	:	Not required.
Protective measures	:	Use professional judgment in the selection, care, and use. Other equipment

**DURALKOTE 240 1:1 PART A**

Version 4.0

Print Date 09/04/2014

REVISION DATE: 09/03/2014

Engineering measures : not normally required.  
: General ventilation is sufficient.

**Exposure Limits**

No known components with exposure limits.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form : Liquid  
Color : Clear to Yellow  
Odor : Epoxy  
pH : Not available.  
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 : Miscible  
Specific Gravity : 1.13  
% Volatile Weight : 0.0 %

**SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid : Acids and bases.Amines.Epoxy curing agents.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

No Data Available

**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**Disposal Method : Not regulated under RCRA. Dispose of in compliance with state and local regulations.  
Do not incinerate.



**DURALKOTE 240 1:1 PART A**

Version 4.0  
REVISION DATE: 09/03/2014

Print Date 09/04/2014

**SECTION 14 - TRANSPORTATION / SHIPPING DATA**

**CFR / DOT:**

Not Regulated

**TDG:**

Not Regulated

**IMDG:**

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:**

- SARA 313 Components : 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 :
- OSHA Flammability : Not Regulated

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

**U.S. State Regulations:**

- Penn RTK Components : Bisphenol A Polyglycidyl Ether Resin 25068-38-6  
Aliphatic glycidyl ether 2461-15-6
- NJ RTK Components : Bisphenol A Polyglycidyl Ether Resin 25068-38-6  
Aliphatic glycidyl ether 2461-15-6

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:  
None known.



**DURALKOTE 240 1:1 PART A**

Version 4.0  
 REVISION DATE: 09/03/2014

Print Date 09/04/2014

**SECTION 16 - OTHER INFORMATION**

**HMIS Rating :**

Health	1
Flammability	1
Reactivity	0
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: 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







**DURALKOTE 240 LIGHT GRAY 1:1 PART B**

Version 4.0  
REVISION DATE: 09/03/2014

Print Date 09/04/2014

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : DURALKOTE 240 LIGHT GRAY 1:1 PART B  
 Product code : TD2379104501NC

COMPANY : Euclid Chemical Company  
 19218 Redwood Road  
 Cleveland, OH 44110

Telephone : 1-800-321-7628  
 Emergency Phone : U.S. only: 1-800-424-9300  
 International Users Call Collect: 1-703-527-3887

Product use : Curative

**SECTION 2 - HAZARDS IDENTIFICATION**

**Emergency Overview**

Light Gray. Liquid solution. May cause slight irritation to the respiratory system. 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 : Vapors or liquid may cause tearing, blurred vision, severe irritation, and possible chemical burns.  
 Ingestion : May cause irritation to the mouth, throat and stomach. May cause chemical burns to stomach, mouth, nose, and throat.  
 Skin : May cause moderate irritation. May cause sensitization resulting in irritation, itching and redness.

**Aggravated Medical Conditions**

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

**Chronic Health Effects**

May aggravate persons sensitized to amines. Prolonged skin contact may cause irritation, burns or dermatitis. Polyamines are reported to cause liver and kidney damage in experimental animals on prolonged and repeated overexposure. 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 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.

**Target Organs:** Skin, Eye, Lung

**SECTION 3 - PRODUCT COMPOSITION**



**DURALKOTE 240 LIGHT GRAY 1:1 PART B**

Version 4.0  
 REVISION DATE: 09/03/2014

Print Date 09/04/2014

Chemical Name	CAS-No.	Weight %
Polyamine	NJ TSRN# 51721300-6020P	15.0 - 40.0
Titanium dioxide	13463-67-7	15.0 - 40.0
4-Nonylphenol	84852-15-3	10.0 - 30.0
Calcium carbonate	471-34-1	10.0 - 30.0
Poly(oxypropylene) diamine	9046-10-0	10.0 - 30.0
Benzyl alcohol	100-51-6	7.0 - 13.0
Organophylic clay	NJ TSRN# 51721300-5118P	3.0 - 7.0
Aluminum oxide	1344-28-1	0.1 - 1.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1.0

**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 FIGHTING MEASURES**

- Flash point : > 200 °F, > 93 °C
- Method : Setaflash Closed Cup
- 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.
- Hazardous combustion products : Carbon monoxide, carbon dioxide, and nitrogen oxides.
- 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.

**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.



**DURALKOTE 240 LIGHT GRAY 1:1 PART B**

Version 4.0  
 REVISION DATE: 09/03/2014

Print Date 09/04/2014

**SECTION 7 - HANDLING AND STORAGE**

Store under normal warehouse conditions. Handle in compliance with common hygienic practices. Clean hands thoroughly after handling. 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.

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

**Personal protection equipment**

- Respiratory protection : Use full engineering controls before relying on personal protective equipment. 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 : Protect hands with impervious gloves.
- 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.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures : Use local exhaust when the general ventilation is inadequate.

**Exposure Limits**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Titanium dioxide	13463-67-7	ACGIH TWA:	10 mg/m3	
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- Form : Liquid solution
- Color : Light Gray
- pH : 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 : 1.357
- % Volatile Weight : 9.6 %



**DURALKOTE 240 LIGHT GRAY 1:1 PART B**

Version 4.0  
REVISION DATE: 09/03/2014

Print Date 09/04/2014

**SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid : Acids.

Stability : Stable under normal conditions. Avoid welding arcs, flames or other high temperature sources.

Hazardous polymerization : Will not occur under normal conditions.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Titanium dioxide, CAS-No.: 13463-67-7  
 Acute oral toxicity (LD-50 oral) 25,000 mg/kg ( Rat ) 5,000 mg/kg ( Rat ) 5,000 mg/kg ( Rat )  
 2,000 mg/kg ( Rat ) 11,000 mg/kg ( Rat )  
 Acute inhalation toxicity (LC-50) > 6.82 mg/l for 4 h ( Rat ) 3.43 mg/l for 4 h ( Rat ) 5.09 mg/l  
 for 4 h ( Rat ) > 2.28 mg/l for 4 h ( Rat ) > 3.56 mg/l for 4 h ( Rat )

Calcium carbonate, CAS-No.: 471-34-1  
 Acute oral toxicity (LD-50 oral) 6,450 mg/kg ( Rat )

Benzyl alcohol, CAS-No.: 100-51-6  
 Acute oral toxicity (LD-50 oral) 1,580 mg/kg ( Mouse ) 1,940 mg/kg ( Rabbit ) 3,100 mg/kg ( Rat )  
 1,230 - 3,100 mg/kg ( Rat )  
 Acute inhalation toxicity (LC-50) 200 - 300 mg/l for 8 h ( Rat ) 1,000 mg/l for 8 h ( Rat )

**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal Method : Waste not regulated under RCRA. Incinerate at EPA approved facility or dispose of waste in compliance with state and local regulations.

**SECTION 14 - TRANSPORTATION / SHIPPING DATA**

**CFR / DOT:**

Not Regulated

**TDG:**

Not Regulated

**DURALKOTE 240 LIGHT GRAY 1:1 PART B**

Version 4.0

Print Date 09/04/2014

REVISION DATE: 09/03/2014

**IMDG:**

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol), 9, PG III,  
MARINE POLLUTANT

**Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation.  
Please refer to Bill of Lading.

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

All components are listed or exempt from the TSCA inventory.  
One or more components are listed on the NDSL.

**U.S. Federal Regulations:**

SARA 313 Components : None present or none present in regulated quantities.

SARA 311/312 Hazards : Acute Health Hazard  
Chronic Health Hazard

## OSHA Hazardous Components :

Titanium dioxide	13463-67-7
Aluminum oxide	1344-28-1
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7

OSHA Status: Considered : Irritant  
hazardous based on the Carcinogen  
following criteria:

OSHA Flammability : Not Regulated

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

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
--	------------

**U.S. State Regulations:**

MASS RTK Components	:	Titanium dioxide	13463-67-7
		Calcium carbonate	471-34-1
		Benzyl alcohol	100-51-6
		Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
		Silica (crystalline-cristobalite)	14464-46-1
		Benzene	71-43-2

Penn RTK Components	:	Polyamine	NJ TSRN# 51721300-6020P
		Titanium dioxide	13463-67-7
		4-Nonylphenol	84852-15-3
		Calcium carbonate	471-34-1
		Poly(oxypropylene) diamine	9046-10-0



**DURALKOTE 240 LIGHT GRAY 1:1 PART B**

Version 4.0  
 REVISION DATE: 09/03/2014

Print Date 09/04/2014

NJ RTK Components	: Benzyl alcohol Organophylic clay Polyamine Titanium dioxide 4-Nonylphenol Calcium carbonate Poly(oxypropylene) diamine Crystalline Silica (Quartz)/ Silica Sand	100-51-6 NJ TSRN# 51721300-5118P NJ TSRN# 51721300-6020P 13463-67-7 84852-15-3 471-34-1 9046-10-0 14808-60-7
-------------------	--	---

**WARNING!** Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:  
 14808-60-7                                      Crystalline Silica (Quartz)/ Silica Sand

**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: 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                           |  |