



The Euclid Chemical Company

## **DURALCRETE LV**

Version 1.

Print Date 10/21/2008

REVISION DATE: 06/08/2007

This is a kit that contains the following components:

DURALCRETE LV 2:1 PART A

DURALCRETE LV 2:1 PART B



**DURALCRETE LV 2:1 PART A**Version 1.  
REVISION DATE: 06/08/2007

Print Date 10/21/2008

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : DURALCRETE LV 2:1 PART A  
Product code : TD53121 75

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**

Clear. 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
o-Cresyl glycidyl ether	2210-79-9	15.0 - 40.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

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- |              |   |  |
|--------------|---|--|
| 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.   |

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Protective measures : Use professional judgment in the selection, care, and use. Other equipment not normally required.

Engineering measures : General ventilation is sufficient.

**Exposure Limits**

No known components with exposure limits.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form : Liquid  
Color : Clear  
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 : 1.14  
% 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.

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**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:**

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

Regulatory VOC (less water and  
exempt solvent) : 0 g/l

VOC Method 310 : 0 %

**U.S. State Regulations:**Penn RTK Components : Bisphenol A Polyglycidyl Ether Resin 25068-38-6  
o-Cresyl glycidyl ether 2210-79-9NJ RTK Components : Bisphenol A Polyglycidyl Ether Resin 25068-38-6  
o-Cresyl glycidyl ether 2210-79-9

WARNING! Contains 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	1
Flammability	1
Reactivity	0
PPE	

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



## DURALCRETE LV 2:1 PART A

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### 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





**DURALCRETE LV 2:1 PART B**Version 1.  
REVISION DATE: 06/08/2007

Print Date 10/21/2008

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : DURALCRETE LV 2:1 PART B  
Product code : TD53121 75

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**

Clear to Amber. 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. Remove to fresh air. Get immediate 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 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. 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 - PRODUCT COMPOSITION**

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Chemical Name	CAS-No.	Weight %
Modified Amine	NJ TSRN# 51721300-5867P	15.0 - 40.0
4-Nonylphenol	84852-15-3	15.0 - 40.0
Poly(oxypropylene) diamine	9046-10-0	10.0 - 30.0
Benzyl alcohol	100-51-6	10.0 - 30.0
1,2-Cyclohexanediamine	694-83-7	10.0 - 30.0
1,3-Cyclohexanedimethanamine	2579-20-6	5.0 - 10.0
Water	7732-18-5	5.0 - 10.0
N Amino ethyl piperazine	140-31-8	5.0 - 10.0

**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.
- 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 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.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately.

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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**

No known components with exposure limits.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- Form : Liquid
- Color : Clear to Amber
- Odor : Amine
- 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.

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Water solubility : Negligible  
Specific Gravity : 1.02  
% Volatile Weight : 39.8 %

**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**

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 )  
Acute inhalation toxicity (LC-50) 1,230 - 3,100 mg/kg ( Rat )  
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 : Subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in compliance with federal, state and local regulations.

**SECTION 14 - TRANSPORTATION / SHIPPING DATA****TDG / DOT Shipping Description:**

CORROSIVE LIQUID, N.O.S. (Contains Modified polyamine, Benzyl alcohol), 8, UN1760, PG III

**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 : Based on an evaluation of the components used, this product does not

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contain hazardous ingredients identified as per 29 CFR 1910.1200

## OSHA Hazardous Components :

OSHA Status: Considered : Corrosive  
hazardous based on the  
following criteria:

OSHA Flammability : Not Regulated

Regulatory VOC (less water and  
exempt solvent) : 375 g/l  
VOC Method 310 : 34 %

**U.S. State Regulations:**

MASS RTK Components : Benzyl alcohol 100-51-6  
N Amino ethyl piperazine 140-31-8

Penn RTK Components : Modified Amine NJ TSN# 51721300-5867P  
4-Nonylphenol 84852-15-3  
Poly(oxypropylene) diamine 9046-10-0  
Benzyl alcohol 100-51-6  
1,2-Cyclohexanediamine 694-83-7  
1,3-Cyclohexanedimethanamine 2579-20-6  
Water 7732-18-5  
N Amino ethyl piperazine 140-31-8

NJ RTK Components : Modified Amine NJ TSN# 51721300-5867P  
4-Nonylphenol 84852-15-3  
Poly(oxypropylene) diamine 9046-10-0  
Benzyl alcohol 100-51-6  
1,2-Cyclohexanediamine 694-83-7

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other  
reproductive harm:  
71-43-2 Benzene

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

Health	3
Flammability	1
Reactivity	1
PPE	

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



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**Further information:**

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**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