

# **DURAL 340 SL LT GRAY 1:1**

Version 1.0 Print Date 12/27/2013

REVISION DATE: 08/02/2012

This is a kit that contains the following components:

DURAL 340 LIGHT GRAY 1:1 PART A

DURAL 340 1:1 PART B



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## **SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : DURAL 340 LIGHT GRAY 1:1 PART A

Product code : TD5370104501NC

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**

Light Gray. 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. 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. 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. Prolonged and repeated exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pneumoconiosis) or the covering of the lungs (pleural thickening). 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



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Epichlorohydrin castor oil based epoxy resin	74398-71-3	10.0 - 30.0
Calcium carbonate	471-34-1	7.0 - 13.0
4-Nonylphenol	84852-15-3	7.0 - 13.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	3.0 - 7.0
Talc	14807-96-6	3.0 - 7.0
Titanium dioxide	13463-67-7	1.0 - 5.0

# **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 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

firefighters

Smoke, fumes.

Protective equipment for : 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



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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

not normally required.

Engineering measures : General ventilation is sufficient.

## **Exposure Limits**

Chemical Name	CAS Number	Regulation	<u>Limit</u>	<u>Form</u>
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL: ACGIH TWA:	0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3 0.025 mg/m3	Respirable. Total dust. Total dust. Respirable fraction. Respirable fraction.
Talc	14807-96-6	ACGIH TWA: OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL:	2 mg/m3 0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Respirable. Total dust. Total dust. Respirable fraction.
Titanium dioxide	13463-67-7	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.

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

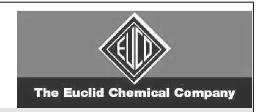
Form : Liquid
Color : Light Gray
Odor : Epoxy

pH : Not available.

Vapour pressure : Not available.

Vapor density : Heavier than air

Melting point/range : Not available.



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Freezing point : Not available.

Boiling point/range : Not available.

Water solubility : Miscible

Specific Gravity : 1.15

% Volatile Weight : 8.7 %

# **SECTION 10 - REACTIVITY / STABILITY**

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

# **SECTION 11 - TOXICOLOGICAL INFORMATION**

Calcium carbonate, CAS-No.: 471-34-1

Acute oral toxicity (LD-50 oral) 6,450 mg/kg (Rat )

## **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.

## SECTION 14 - TRANSPORTATION / SHIPPING DATA

#### CFR / DOT:

Not Regulated

TDG:

Not Regulated

IMDG:

Not Regulated



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#### 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 : Acute Health Hazard

Chronic Health Hazard

OSHA Hazardous Components:

Crystalline Silica (Quartz)/ Silica Sand 14808-60-7 Talc 14807-96-6 Titanium dioxide 13463-67-7

OSHA Status: Considered hazardous based on the

following criteria:

: Irritant Carcinogen

OSHA Flammability : Not Regulated

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

0 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 : Calcium carbonate 471-34-1

Crystalline Silica (Quartz)/ Silica Sand 14808-60-7 Talc 14807-96-6 Titanium dioxide 13463-67-7

Penn RTK Components : Bisphenol A Polyglycidyl Ether Resin 25068-38-6

Epichlorohydrin castor oil based 74398-71-3

epoxy resin

Calcium carbonate 471-34-1
4-Nonylphenol 84852-15-3
Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
Talc 14807-96-6
Titanium dioxide 13463-67-7

NJ RTK Components : Bisphenol A Polyglycidyl Ether Resin 25068-38-6

Epichlorohydrin castor oil based 74398-71-3

epoxy resin

Calcium carbonate 471-34-1 4-Nonylphenol 84852-15-3 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7



# DURAL 340 LIGHT GRAY 1:1 PART A

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Talc 14807-96-6 Titanium dioxide 13463-67-7

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

1333-86-4 Carbon Black 106-89-8 Epichlorohydrin

# **SECTION 16 - OTHER INFORMATION**

#### **HMIS Rating:**

Health	2	0 = Minimum
Flammability	1	1 = Slight
Reactivity	0	2 = Moderate
PPE		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



# DURAL 340 1:1 PART B

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## SECTION 1 - PRODUCT IDENTIFICATION

Trade name : DURAL 340 1:1 PART B Product code : TD5370104501NC

COMPANY : Euclid Chemical Company

19218 Redwood Road Cleveland. OH 44110

4 000 204 7620

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**

White to 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.

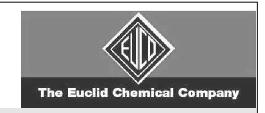
#### **Aggravated Medical Conditions**

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. Prolonged and repeated exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pneumoconiosis) or the covering of the lungs (pleural thickening). Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Lung



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## **SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
4-Nonylphenol	84852-15-3	30.0 - 60.0
Talc	14807-96-6	15.0 - 40.0
Poly(oxypropylene) diamine	9046-10-0	15.0 - 40.0
Tris(dimethylaminomethyl)phenol	90-72-2	1.0 - 5.0
2-Methyl-1,5-pentanediamine	15520-10-2	1.0 - 5.0
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 : Carbon monoxide, carbon dioxide, and nitrogen oxides.

products

Protective equipment for : Use accepted fire fighting techniques. Wear full firefighting protective

firefighters 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.



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#### **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**

Chemical Name	CAS Number	Regulation	<u>Limit</u>	<u>Form</u>
Talc	14807-96-6	ACGIH TWA:	2 mg/m3	Respirable fraction.
		OSHA TWA:	0.1 mg/m3	Respirable.
		OSHA TWA:	0.3 mg/m3	Total dust.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA PEL:	5 mg/m3	Respirable fraction.
Crystalline Silica (Quartz)/	14808-60-7	OSHA TWA:	0.1 mg/m3	Respirable.
Silica Sand		OSHA TWA:	0.3 mg/m3	Total dust.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA PEL:	5 mg/m3	Respirable fraction.
		ACGIH TWA:	0.025 mg/m3	Respirable fraction.
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## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

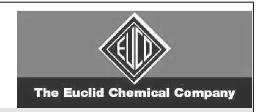
Form : Liquid solution
Color : White to Gray

Odor : Amine

pH : Not available.
Vapour pressure : Not available.
Vapor density : Not available.

An RPT Company 11/14 000000018644

TD5370104501NC



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Melting point/range : Not available.

Freezing point : Not available.

Boiling point/range : Not available.

Water solubility : Not available.

Specific Gravity : 1.18 % Volatile Weight : 35.5 %

# **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**

No Data Available

# **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

IMDG:



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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.

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 : Acute Health Hazard

Chronic Health Hazard

OSHA Hazardous Components:

Talc 14807-96-6 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

OSHA Status: Considered hazardous based on the

: Irritant Carcinogen

following criteria:

OSHA Flammability : Not Regulated

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

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 : Talc 14807-96-6

Crystalline Silica (Quartz)/ Silica Sand 14808-60-7 Arsenic 7440-38-2 Cadmium 7440-43-9 Chromium 7440-47-3

Penn RTK Components : 4-Nonylphenol 84852-15-3

Talc 14807-96-6 Poly(oxypropylene) diamine 9046-10-0

NJ RTK Components : 4-Nonylphenol 84852-15-3

Talc 14807-96-6
Poly(oxypropylene) diamine 9046-10-0
Tris(dimethylaminomethyl)phenol 90-72-2
2-Methyl-1,5-pentanediamine 15520-10-2



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Crystalline Silica (Quartz)/ Silica Sand 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	0 = Minimum
Flammability	1	1 = Slight
Reactivity	1	2 = Moderate
PPE		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

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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