

Print Date 07/09/2012

DURAL 340 SL LT GRAY 1:1

Version 3.0 REVISION DATE: 07/07/2012

This is a kit that contains the following components:

DURAL 340 LIGHT GRAY 1:1 PART A DURAL 340 1:1 PART B



The Euclid Chemical Company

DURAL 340 LIGHT GRAY 1:1 PART A

Version 3.0 REVISION DATE: 07/07/2012

Print Date 07/09/2012

SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION

<u>Product Information</u> Trade name Product code	:	DURAL 340 LIGHT GRAY 1:1 PART A TD5370104501
Supplier	:	Euclid Canada 2835 Grande-Allée St-Hubert, QC J4T 2R4
Telephone	:	1-800-667-0920
Emergency Phone:	:	(613) 996-6666
Preparation Information		
Prepared by:	:	Sewnauth Raghunandan
Date:	:	07/07/2012
Telephone	:	(416) 421-3300

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

Rpm Canada	3/14 TD5370104501	00000009588
	-	



The Euclid Chemical Company

DURAL 340 LIGHT GRAY 1:1 PART A

Version 3.0 REVISION DATE: 07/07/2012 Print Date 07/09/2012

SECTION 3 : HAZARDOUS INGREDIENTS

Chemical Name	CAS-No.	Weight % Range
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	> 60.0
Epichlorohydrin castor oil based epoxy resin	74398-71-3	10.0 - 30.0
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
Titanium dioxide	13463-67-7	

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 / EXPLOSION HAZARDS

Flash point Method	:	> 200 °F, > 93 °C Setaflash Closed Cup
Lower explosion limit	:	Not available.
Upper explosion limit	:	Not available.
Autoignition temperature	:	Not available.
Means of Extinction	:	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.



The Euclid Chemical Company

DURAL 340 LIGHT GRAY 1:1 PART A

Version 3.0 REVISION DATE: 07/07/2012

Print Date 07/09/2012

SECTION 6 - SPILLS / LEAKS / 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 equip Respiratory protection	ment 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	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.
Talc	14807-96-6	Ontario TWAEV: ACGIH TWA: Ontario TWAEV:	2 mg/m3 2 mg/m3 2 ppm	Respirable. Respirable fraction.
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
Color	: Light Gray

RPM Canada



The Euclid Chemical Company

DURAL 340 LIGHT GRAY 1:1 PART A

Version 3.0 REVISION DATE: 07/07/2012

Print Date 07/09/2012

Odor	:	Ероху
рН	:	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
Evaporation Rate:	:	Not available.
Specific Gravity	:	1.15
% Volatile Weight	:	8 %

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 - WASTE DISPOSAL CONSIDERATIONS

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

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG:

Not Regulated

CFR / DOT:

Not Regulated

nada



The Euclid Chemical Company

DURAL 340 LIGHT GRAY 1:1 PART A

Version 3.0 REVISION DATE: 07/07/2012 Print Date 07/09/2012

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.

Canadian Regulations:

WHMIS Classification : 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:

Regulatory VOC (less water and : 100 g/l exempt solvent)

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	2
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: Sewnauth Raghunandan

Legend

	Legend		
	ACGIH - American Conference of Governmental Hygienists	OSHA - Occupational Safety and Health Administration	n
	DOT - Department of Transportation	PEL - Permissible Exposure Limit	
	DSL - Domestic Substance List	RCRA - Resource Conservation and Recovery 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	
-	RPI Canada	7/14	000000009588
	TD5370104501		



The Euclid Chemical Company

DURAL 340 LIGHT GRAY 1:1 PART A

Version 3.0 REVISION DATE: 07/07/2012 Print Date 07/09/2012

NTP - National Toxicology Program

WHMIS - Workplace Hazardous Materials Information System



The Euclid Chemical Company

DURAL 340 1:1 PART B

Version 3.0 REVISION DATE: 07/07/2012

Print Date 07/09/2012

SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION

<u>Product Information</u> Trade name Product code	:	DURAL 340 1:1 PART B TD5370104501
Supplier	:	Euclid Canada 2835 Grande-Allée St-Hubert, QC J4T 2R4
Telephone	:	1-800-667-0920
Emergency Phone:	:	(613) 996-6666
Product use	:	Curative
Preparation Information		
Prepared by:	:	Sewnauth Raghunandan
Date:	:	07/07/2012
Telephone	:	(416) 421-3300

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

White to 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 Eyes	 May cause slight irritation to the respiratory system. 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

9/14 TD5370104501	00000009589
TD5370104501	



The Euclid Chemical Company

DURAL 340 1:1 PART B

Version 3.0 REVISION DATE: 07/07/2012 Print Date 07/09/2012

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.

SECTION 3 : HAZARDOUS INGREDIENTS

Chemical Name	CAS-No.	Weight % Range
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
N Amino ethyl piperazine	140-31-8	3.0 - 7.0
Tris(dimethylaminomethyl)phenol	90-72-2	1.0 - 5.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1.0
The ingredients listed above are bazardous as defined in the controlled products regulation (CPR)		

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 Method	:	> 200 °F, > 93 °C 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 dioxid	le, dry chemical or foam.
Hazardous combustion products	:	Carbon monoxide and carbon dioxide can oxides can form.	form.Smoke, fumes.Nitrogen
Protective equipment for firefighters	:	Use accepted fire fighting techniques. We clothing, including self-contained breathing	
Canada		10/14 TD5370104501	00000009589



The Euclid Chemical Company

DURAL 340 1:1 PART B

Version 3.0 REVISION DATE: 07/07/2012

Print Date 07/09/2012

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 - 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	<u>Limit</u>	<u>Form</u>
4-Nonylphenol	84852-15-3			
Talc	14807-96-6	Ontario TWAEV: ACGIH TWA: Ontario TWAEV:	2 mg/m3 2 mg/m3 2 ppm	Respirable. Respirable fraction.
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	Ontario TWAEV: ACGIH TWA:	0.10 mg/m3 0.025 mg/m3	Respirable fraction. Respirable fraction.

RPM Canada	11/14	00000009589
	TD5370104501	



The Euclid Chemical Company

DURAL 340 1:1 PART B

Version 3.0 REVISION DATE: 07/07/2012

Print Date 07/09/2012

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Form	: Liquid
Color	: White to Gray
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	: Not available.
Water solubility	: Negligible
Evaporation Rate:	: Not available.
Specific Gravity	: 1.18
% Volatile Weight	: 35 %

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.

RPM Canada



The Euclid Chemical Company

DURAL 340 1:1 PART B

Version 3.0 REVISION DATE: 07/07/2012

Print Date 07/09/2012

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG:

UN1760, CORROSIVE LIQUID, N.O.S. (Alkaline Amine), 8, PG III

CFR / DOT:

UN1760, Corrosive liquids, n.o.s. (Alkaline Amine), 8, PG III

IMDG:

UN1760, CORROSIVE LIQUID, N.O.S. (Alkaline Amine, Nonylphenol), 8, 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.

Canadian Regulations:

D2A, D2B, E

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:

Regulatory VOC (less water and : 420 g/l exempt solvent)

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	2
Flammability	1
Reactivity	1
PPE	

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

RPIT Canada	13/14 TD5370104501	00000009589



The Euclid Chemical Company

DURAL 340 1:1 PART B

Version 3.0 REVISION DATE: 07/07/2012 Print Date 07/09/2012

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

RPM Canada	14/14 TD5370104501	00000009589