

**DURAL 50 LM 2:1 PART A**

Version 1.

Print Date 05/28/2008

REVISION DATE: 05/25/2007

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : DURAL 50 LM 2:1 PART A
Product code : TA5333305

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
Aliphatic glycidyl ether	2461-15-6	15.0 - 40.0
Acrylate Ester	15625-89-5	7.0 - 13.0
Hydroquinone (HQ)	123-31-9	- <0.1

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

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Engineering measures : General ventilation is sufficient.

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
Hydroquinone (HQ)	123-31-9	ACGIH TWA: OSHA PEL:	2 mg/m3 2 mg/m3	

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 : 1.13
% Volatile Weight : 0.0 %

SECTION 10 - REACTIVITY / STABILITY

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

SECTION 11 - TOXICOLOGICAL INFORMATION

Hydroquinone (HQ), CAS-No.: 123-31-9
Acute oral toxicity (LD-50 oral) 320 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.

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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 : Acute Health Hazard

OSHA Hazardous Components :
Hydroquinone (HQ) 123-31-9OSHA Status: Considered : Irritant
hazardous based on the
following criteria:

OSHA Flammability : Not Regulated

Regulatory VOC (less water and : 0 g/l
exempt solvent)
VOC Method 310 : 0 %**U.S. State Regulations:**

MASS RTK Components : Hydroquinone (HQ) 123-31-9

Penn RTK Components : Bisphenol A Polyglycidyl Ether Resin 25068-38-6
Aliphatic glycidyl ether 2461-15-6
Acrylate Ester 15625-89-5NJ RTK Components : Bisphenol A Polyglycidyl Ether Resin 25068-38-6
Aliphatic glycidyl ether 2461-15-6
Acrylate Ester 15625-89-5WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:
None known.

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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