

**DURAL 435 BLACK PART B**

Version 3.0
REVISION DATE: 09/29/2014

Print Date 01/27/2015

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : DURAL 435 BLACK PART B

Product code : B6352 003NC

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**

Black. Liquid solution. Vapor may irritate respiratory tract. May cause nausea, headaches, and dizziness. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : Vapor may irritate respiratory tract. May cause nausea, headaches, and dizziness.

Eyes : Direct contact may cause mild irritation. May cause temporary injury.

Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.

Skin : May cause sensitization resulting in irritation, itching and redness.

Aggravated Medical Conditions

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

Chronic Health Effects

Prolonged or repeated contact/exposure to aromatic petroleum distillates may cause defatting, drying, and irritation of the skin, dermatitis, and central nervous system (CNS) effects. Animal studies have shown adverse effects in the pancreas, liver, thyroid and eyes caused by diethyltoluenediamine (DETDA). In rare instances, sensitization to DETDA has been reported to occur in humans. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Ingestion, Lung

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Diethyltoluenediamine	68479-98-1	30.0 - 60.0
Aromatic petroleum distillates	64742-95-6	15.0 - 40.0
1,2,4-Trimethylbenzene	95-63-6	15.0 - 40.0
Iron oxide	1317-61-9	5.0 - 10.0

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1,3,5-Trimethylbenzene	108-67-8	3.0 - 7.0
Cumene	98-82-8	0.1 - 1.0
Xylene	1330-20-7	0.1 - 1.0
Ethylbenzene	100-41-4	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	:	108 °F, 42 °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	:	Smoke, fumes. Carbon monoxide and carbon dioxide can form.
Protective equipment for firefighters	:	Water may be used to cool containers to minimize pressure build-up. Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
Fire and explosion conditions	:	Closed container, may burst when exposed to extreme heat. Empty containers may contain ignitable vapors. Vapor concentrations in enclosed areas may ignite explosively. Vapors may travel to sources of ignition and flashback.

SECTION 6 - 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

Store under dry warehouse conditions away from heat and all ignition sources. Store in a cool, well ventilated area. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed

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when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protection equipment**

- Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are 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 : Chemical splash goggles.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use general ventilation and/ or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
1,2,4-Trimethylbenzene	95-63-6	ACGIH TWA:	25 ppm	
Iron oxide	1317-61-9	ACGIH TWA: ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3	Respirable particles. Inhalable particles. Total dust. Respirable fraction. Total dust. Respirable fraction.
1,3,5-Trimethylbenzene	108-67-8	ACGIH TWA:	25 ppm	
Cumene	98-82-8	ACGIH TWA: OSHA PEL:	50 ppm 245 mg/m3	
Xylene	1330-20-7	ACGIH TWA: ACGIH STEL: OSHA PEL:	100 ppm 150 ppm 435 mg/m3	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Form : Liquid solution
- Color : Black
- Odor : Amine
- pH : Not available.
- Vapour pressure : Not available.

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Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: Not available.
Water solubility	: Negligible
Specific Gravity	: 0.997
% Volatile Weight	: 51.5 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid	: Epoxy curing agents.Amines and oxidizing agents.
Stability	: Material is stable under normal storage, handling, and use.
Hazardous polymerization	: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Cumene, CAS-No.: 98-82-8	
Acute oral toxicity (LD-50 oral)	2,910 mg/kg (Rat) 1,400 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	2,000 mg/l for 7 h (Mouse) 8,000 mg/l for 4 h (Rat) 24.7 mg/l for 2 h (Mouse)
Xylene, CAS-No.: 1330-20-7	
Acute oral toxicity (LD-50 oral)	4,300 mg/kg (Rat) 1,590 mg/kg (Mouse) 6,670 mg/kg (Rat) 3,523 - 8,600 mg/kg (Rat) 5,627 mg/kg (Mouse)
Acute inhalation toxicity (LC-50)	6,350 mg/l for 4 h (Rat) 3,907 mg/l for 6 h (Mouse) 8,000 mg/l for 4 h (Rat)
Ethylbenzene, CAS-No.: 100-41-4	
Acute oral toxicity (LD-50 oral)	5,460 mg/kg (Rat) 3,500 mg/kg (Rat)
Acute dermal toxicity (LD-50 dermal)	17,800 mg/kg (Rabbit)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method : Recycle or dispose of in compliance with local, provincial and federal regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

CFR / DOT:

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Not Regulated

TDG:

Not Regulated

IMDG:

UN1139, COATING SOLUTION, 3, PG III

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	:	1,2,4-Trimethylbenzene	95-63-6
		Ethylbenzene	100-41-4

SARA 311/312 Hazards	:	Acute Health Hazard
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OSHA Hazardous Components :

1,2,4-Trimethylbenzene	95-63-6
Iron oxide	1317-61-9
1,3,5-Trimethylbenzene	108-67-8
Cumene	98-82-8
Xylene	1330-20-7
Ethylbenzene	100-41-4

OSHA Status: Considered hazardous based on the following criteria:	:	Irritant
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OSHA Flammability	:	Not Regulated
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When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:
88 g/l

U.S. State Regulations:

MASS RTK Components	:	1,2,4-Trimethylbenzene	95-63-6
		1,3,5-Trimethylbenzene	108-67-8
Penn RTK Components	:	Diethyltoluenediamine	68479-98-1
		Aromatic petroleum distillates	64742-95-6
		1,2,4-Trimethylbenzene	95-63-6

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NJ RTK Components	Iron oxide	1317-61-9
	1,3,5-Trimethylbenzene	108-67-8
	Diethyltoluenediamine	68479-98-1
	Aromatic petroleum distillates	64742-95-6
	1,2,4-Trimethylbenzene	95-63-6
	Iron oxide	1317-61-9
	1,3,5-Trimethylbenzene	108-67-8
	Diethylbenzene, Mixed Isomers	25340-17-4

Components under California Proposition 65:

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm

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

Health	2
Flammability	2
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
 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