



## Material Safety Data Sheet

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Q-Black® 50

**MSDS NO.** FLXP0071

**Chemical Name:** Benzenamine, N-{4-[(1,3-dimethylbutyl)imino]-2,5-cyclohexadien-1-ylidene}-. 50% on Carbon Black

**Synonyms:** Blend of Q-Flex QDI and Carbon Black

**Use:** Antidegradant and processing aid

**Manufactured By:** Flexsys America L.P.

**Emergency Telephone:** CHEMTREC: 1-800-424-9300 [TOLL FREE - USA and Territories]  
703-527-3887 [ELSEWHERE - Collect Calls Accepted]  
CANUTEC: 613-996-6666 [Canada]  
SETIQ: 91-800-00-214 [Mexico]

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### 2. HAZARDS IDENTIFICATION

**Emergency Overview:** WARNING! May cause moderate eye irritation. May cause staining and discoloration of the skin. Contains Carbon Black - Possible Human Carcinogen.

**Eye Contact:** Causes moderate eye irritation. Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing and hazy vision.

**Skin Contact:** May cause mild skin irritation. May cause skin defatting with prolonged exposure. Contact with skin causes unsightly stains.

**Inhalation:** Causes mild respiratory irritation.

**Ingestion:** Swallowing a relatively large amount of this material is unlikely to produce serious illness or death.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Carbon Black	1333-86-4	50
N-(1,3-Dimethylbutyl)-N'-phenyl-p-quinonediimine	52870-46-9	48 - 49
N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine	793-24-8	1 - 2

### 4. FIRST AID MEASURES

**In Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**On Skin:** Wash with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists.

**Inhaled:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

MARKETED BY

**HARWICK STANDARD  
DISTRIBUTION CORPORATION**

60 S. Seiberling Street • Akron, Ohio 44305

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#### 4. FIRST AID MEASURES

**Swallowed:** If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

**Notes To Physician:** Provide symptomatic/supportive care as necessary.

#### 5. FIRE FIGHTING MEASURES

**Flash Point (°F/C):** 365°F / 180°C for component Q-Flex QDI  
**Flash Point Method:** Cleveland Open Cup [ASTM D92-96]  
**Autoignition Temp. (°F/C):** 905°F / 485°C for component Q-Flex QDI; >284°F / >140°C for component Carbon Black

**Lower Explosion Limit (LEL):** 50 g/m<sup>3</sup> for component Carbon Black. Dust Explosion Class ST 1.  
**Upper Explosion Limit (UEL):** Not Determined.

**Extinguishing Media:** Use water fog, carbon dioxide, foam or dry chemical.  
**Special Exposure Hazards:** Fight fire from a safe distance and from a protected location. Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases. Do not allow runoff to enter waterways.

**Special Protective Equipment:** Fire fighters should wear full impervious protective clothing, including self-contained breathing equipment.

**Unusual Fire/Explosion Hazards:** Toxic emissions may result if product is involved in a fire.

#### 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Wear dust-tight goggles. Wear gloves.  
**Procedure for Cleaning/Absorption:** Scoop up and remove material. Reuse if not contaminated. Do NOT spread spilled product with water.

**CERCLA Reportable Quantity (RQ):** Not Applicable

#### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Keep away from food and smoking materials. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Keep containers tightly closed when not in use. Do not reuse this container.

**Storage:** Store closed containers in a cool, dry, well-ventilated area. Store away from strong oxidizing materials. Avoid exposure to direct sunlight.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye Protection:** Wear safety glasses or goggles to protect against exposure.  
**Skin Protection:** Normal work coveralls. Launder contaminated clothing before reuse.  
**Gloves:** All cleanable impervious glove types are acceptable. Use gloves as a standard industrial handling procedure.  
**Respiratory Protection:** Use approved NIOSH respiratory protection if TLV exceeded or if overexposure is likely.  
**Ventilation:** General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product. If air is to be recirculated, it must be filtered properly.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Airborne Exposure Limits:** For component Carbon Black: OSHA PEL/8Hr TWA = 3.5 mg/m<sup>3</sup> ACGIH TLV/8Hr TWA = 3.5 mg/m<sup>3</sup> NIOSH REL/8Hr TWA = 3.5 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Black powder  
**Odor:** AROMATIC  
**pH:** Not Applicable  
**Specific Gravity:** Approximately 1.4  
**Density:** Not Determined  
**Bulk Density:** 809 Kg/m<sup>3</sup> (compacted bulk density)  
**Melting Point (°F/C):** Not Applicable  
**Boiling Point (°F/C):** Not Applicable  
**Vapor Pressure:** 5.29 x 10(-4) Pa @ 25°C for component Q-Flex QDI  
**Vapor Density (Air=1):** Not Determined  
**% Volatile by Volume:** Not Determined  
**Solubility in Water:** INSOLUBLE  
**Other Solubility:** Not Determined  
**Viscosity:** Not Applicable  
**Other Data:** Not Determined  
**Molecular Weight:** Mixture  
**Molecular Formula:** Mixture

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of handling, use and transportation. Stable when stored at room temperature in closed, original container. Stable if protected from heat and exposure to air.  
**Hazardous Polymerization:** Will not occur.  
**Conditions to Avoid:** Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen. Exposure to light. Air.  
**Materials to Avoid:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** Oxides of carbon. Sulfur oxides. Nitrogen compounds.  
**Additional Guidelines:** Not Applicable

## 11. TOXICOLOGICAL INFORMATION

**Acute Oral LD50 (mg/kg):** >3000 mg/kg (Rat)  
**Acute Dermal LD50 (mg/kg):** >3000 mg/kg (Rabbit)  
**Acute Inhalation LC50 (mg/l):** Not Determined

**Target Organs / Principle Routes of Exposure:** Inhalation. Dermal - skin. Eyes.

**Ingestion:** Swallowing a relatively large amount of this material is unlikely to produce serious illness or death.  
**Skin Contact:** May cause mild skin irritation. May cause skin defatting with prolonged exposure. Contact with skin causes unsightly stains.  
**Inhalation:** Causes mild respiratory irritation.  
**Eye Contact:** Causes moderate eye irritation. Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing and hazy vision.  
**Aggravated Conditions:** Respiratory disorders. Dermal ailments. Eye ailments.  
**Carcinogenicity Comment:** Carbon Black [CAS# 1333-86-4]. Carcenogenic: Category 2  
**Other Information:** None known.  
**Primary Irritation Effect:** Moderately irritating to eyes. Slightly irritating to skin. Not sensitizing in animal studies.  
**Carcinogenicity:** For component Q-Flex QDI: Negative in standard tests using bacteria and/or yeast cells. Negative in standard tests using animal cells. Carbon Black - Group 2B.

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## 11. TOXICOLOGICAL INFORMATION

**Genotoxicity:** Negative for genetic activity - in vitro tests.  
**Reproductive/Developmental Toxicity:** Not Determined. This product has not been tested as a mixture.

## 12. ECOLOGICAL INFORMATION

**Acute Fish Toxicity:** For component Q-Flex QDI: 96Hr LC50 Rainbow Trout = 0.638 mg/l. 96Hr LC50 Fathead Minnow = 0.268 mg/l.  
**Acute Crustaceans Toxicity:** For component Q-Flex QDI: 48Hr LC50 Daphnia Magna: 1.40 mg/l.  
**Acute Algae Toxicity:** For component Q-Flex QDI: 96Hr EC50 Algae = 1.60 mg/l. NOEC Algae = 0.50 mg/l.  
**Octanol/Water Coefficient:** This product is a mixture.  
**Chemical Fate Information:** For component Q-Flex QDI: Ready Biodegradability (Modified Sturm) = 20%. Hydrolysis Half Life: T(1/2) = 19hrs @ pH4, 4.68hrs @ pH7, 4.31hrs @ pH9.  
**Other Information:** This product is a mixture. Aquatic toxicology is based on component information.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Waste Method:** This product is not regarded as hazardous waste. Dispose in accordance with local regulations.  
**Contaminated Packaging:** If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Do NOT reuse container.

## 14. TRANSPORT INFORMATION

**DOT:** Not Regulated  
**DOT Reportable Quantity (lbs):** None  
**ICAO/IATA:** See DOT  
**IMDG:** See DOT  
**Marine Pollutant:** No  
**TDG (Canada):** See DOT  
  
**Remarks:** None

## 15. REGULATORY INFORMATION

### Worldwide Inventory Status

<b>USA (TSCA):</b>	All components are listed.
<b>Canada (DSL):</b>	Not Listed
<b>Canada (NDSL):</b>	Listed
<b>European Union (EINECS/ELINCS):</b>	All components are listed.
<b>Japan (ENCS):</b>	Not all components are listed. Initial Notification Filed.
<b>Korea (ECL):</b>	All components are listed.
<b>Australia (AICS):</b>	Not Listed
<b>New Zealand (NZ):</b>	All components are listed.
<b>Phillipines (PICCS):</b>	Not Listed
<b>China (CLECS):</b>	All components are listed.

### US Regulatory Rules

<b>SARA Section 302:</b>	None Found
<b>SARA 311/312 Hazard Categories:</b>	Immediate Delayed
<b>SARA 313 Chemical:</b>	Not Applicable / None
<b>RCRA Status:</b>	Not a RCRA waste.

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## 15. REGULATORY INFORMATION

### Other Regulations:

California Proposition 65:	NONE
New Jersey Right-to-Know List:	Component Carbon Black.
Pennsylvania Right to Know List:	Component Carbon Black.
Florida Right to Know:	Component Carbon Black
Minnesota Right to Know:	Component Carbon Black
Massachusetts Right to Know Law:	Component Carbon Black.
FDA Status 21 CFR:	Not Regulated For Use in food contact applications under 21 CFR.

### Canadian Regulations

WHMIS Hazard Class:	Component Carbon Black: D2A VERY TOXIC MATERIALS
NPRI:	Not Listed. [Canada]

## 16. OTHER INFORMATION

### Hazard Rating Systems:

HMIS Classification:	HEALTH 1, FLAMMABILITY 1, REACTIVITY 0
NFPA Rating:	HEALTH 1, FLAMMABILITY 1, REACTIVITY 0

The following has been revised since the last issue of this MSDS: New MSDS format.

**Additional Information:** WHMIS Ingredient Disclosure List (Canada): Component Carbon Black.

**Important Note:** This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

\*\*\*END OF MSDS\*\*\*