DC-00X

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture

Product name : DC-001 Red
DC-002 Black
DC-003 Blue
DC-003 Green
DC-007 Red

Product code : Not available

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Epoxy system

1.4. Supplier's details

Manufacturer
Multi-Seals, Inc.
540 North Main St.
Manchester, CT, 06042
USA
T 860-643-7188

1.5. Emergency phone number

Emergency number : 860-643-7188 (8:30am - 5:00pm EST)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation, Category 2A : Causes serious eye irritation.

Skin sensitization, Category 1 : May cause an allergic skin reaction.

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Warning

Hazard statements (GHS US) : May cause an allergic skin reaction
Causes serious eye irritation

Precautionary statements (GHS US) : Avoid breathing dust, fume, gas, mist, vapors, spray.
Wash hands thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, eye protection, face protection.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice or attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice or attention.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

Not applicable

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Bisphenol A diglycidyl ether-bisphenol A copolymer	CAS-No.: 25036-25-3	60 - 100
Phenol-formaldehyde polymer	CAS-No.: 9003-35-4 [4]	10 – 30
1,3-Isobenzofurandione, 5,5'-carbonylbis-	CAS-No.: 2421-28-5 [1]	10 - 20
Phenol, polymer with formaldehyde, glycidyl ether	(CAS No) 28064-14-4 [2]	5 – 10
Carbon black	(CAS No) 1333-86-4 [3]	1 – 5

[1] Only present in DC-007 Red
[2] Only present in DC-001 Red
[3] Only present in DC-002 Black
[4] Present in DC-002 Black, DC-003 Blue and DC-003 Green

*The concentrations listed represent actual ranges that result from batch variability.

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Not a normal route of exposure. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Not a normal route of exposure. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Not a normal route of exposure. May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : Not a normal route of exposure. May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Powder, water fog, foam, carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Aldehydes. Hydrogen chloride. Silicon dioxide. Irritating vapors.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

For non-emergency personnel

No additional information available

For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : With molten spills, allow the material to solidify and cool. Pick up large pieces, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Vacuum or sweep material and place in a disposal container. Provide ventilation.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures : Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place.

Specific end uses : Epoxy system.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Carbon black (1333-86-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Carbon black
ACGIH OEL TWA	3 mg/m³ (inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limits	
Local name	Carbon black
OSHA PEL TWA	3.5 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - IDLH - Occupational Exposure Limits	
IDLH	1750 mg/m³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:

Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.

Eye protection:

Wear eye/face protection

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

None necessary under normal conditions of use.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid (Geometric form)
Color	:	Various colors
Odor	:	slight phenolic
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	85 – 100 °C (185 °F - 212 °F)
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	> 93 °C (> 200 °F)
Flammability (solid, gas)	:	Not flammable
Vapor pressure	:	Nil
Relative vapor density at 20°C	:	No data available
Relative density	:	1.1 – 1.7 g/cc at 20 °C (68 °F)
Solubility	:	No data available
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Explosion limits	:	No data available
Particle characteristics	:	No data available

Phenol-formaldehyde polymer (9003-35-4)	
Boiling point	229.3 °C Atm. press.: 968 hPa Decomposition: 'no' Remarks on result: 'other:'
Flash point	96.3 °C Atm. press.: 969,6 hPa Remarks on result: 'other:'
Vapor pressure	3.18 Pa Temp.: 25 °C Remarks on result: 'other:'

9.2. Data relevant with regard to physical hazard classes (supplemental)

% Volatile	:	0.6 - 0.8% by weight
VOC %	:	0 - 0.8% by weight

SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Aldehydes. Hydrogen chloride. Silicon dioxide.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified.

1,3-Isobenzofurandione, 5,5'-carbonylbis- (2421-28-5)	
LC50 inhalation rat	3000 mg/m³ (Exposure time: 6 h Source: ECHA_API)

Phenol-formaldehyde polymer (9003-35-4)	
LD50 oral rat	> 5 g/kg (Source: ECHA)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 inhalation rat	> 5 mg/l air Animal: rat, Guideline: other:, Remarks on results: other:

Carbon black (1333-86-4)	
LD50 oral rat	> 15400 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA)
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: other:, Guideline: other:, Guideline: other:, Guideline: other:

Skin corrosion/irritation : Not classified

Phenol-formaldehyde polymer (9003-35-4)	
pH	6 Temp.: 26,2 °C Concentration: 1 vol% Remarks on result: 'other:'

Serious eye damage/irritation : Causes serious eye irritation.

Phenol-formaldehyde polymer (9003-35-4)	
pH	6 Temp.: 26,2 °C Concentration: 1 vol% Remarks on result: 'other:'

Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified
STOT-single exposure : Not classified

1,3-Isobenzofurandione, 5,5'-carbonylbis- (2421-28-5)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

Phenol-formaldehyde polymer (9003-35-4)	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: other:

Carbon black (1333-86-4)	
NOAEL (oral,rat,90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified

DC-00X	
Viscosity, kinematic	No data available

Bisphenol A diglycidyl ether-bisphenol A copolymer (25036-25-3)	
Viscosity, kinematic	No data available

1,3-Isobenzofurandione, 5,5'-carbonylbis- (2421-28-5)	
Viscosity, kinematic	No data available

Phenol, polymer with formaldehyde, glycidyl ether (28064-14-4)	
Viscosity, kinematic	No data available

Phenol-formaldehyde polymer (9003-35-4)	
Viscosity, kinematic	No data available

Carbon black (1333-86-4)	
Viscosity, kinematic	No data available

Symptoms/effects after inhalation : Not a normal route of exposure. May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : Not a normal route of exposure. May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

1,3-Isobenzofurandione, 5,5'-carbonylbis- (2421-28-5)	
LC50 - Fish [1]	5592 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: ECHA)

Phenol-formaldehyde polymer (9003-35-4)	
EC50 - Crustacea [1]	172 mg/l Test organisms (species): Daphnia pulex

Carbon black (1333-86-4)	
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 10000 mg/l Test organisms (species):

12.2. Persistence and degradability

DC-00X	
Persistence and degradability	Not established.

Bisphenol A diglycidyl ether-bisphenol A copolymer (25036-25-3)	
Persistence and degradability	Rapidly degradable

1,3-Isobenzofurandione, 5,5'-carbonylbis- (2421-28-5)	
Persistence and degradability	Rapidly degradable

Phenol, polymer with formaldehyde, glycidyl ether (28064-14-4)	
Persistence and degradability	Rapidly degradable

Phenol-formaldehyde polymer (9003-35-4)	
Persistence and degradability	Rapidly degradable

Carbon black (1333-86-4)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

DC-00X	
Bioaccumulative potential	Not established.

Phenol-formaldehyde polymer (9003-35-4)	
Partition coefficient n-octanol/water	3.564 (at 25 °C (at pH 4.6)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No

Other information : No other effects known.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.

SECTION 14 Transport information

In accordance with DOT

14.1. UN number

Not regulated for transport

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

Not applicable

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:	
Silica, amorphous, precipitated and gel	CAS-No. 112926-00-8[5]
[5] Only present in DC-007 Red	

15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

Date of issue : 10/13/2015
Revision date : 04/23/2025
Other information : None.

Prepared by: Tyler Brush, 04/23/25

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Disclosure: Any ingredient claimed as a trade secret will be disclosed in accordance with CFR 29 1910.1200 (i). Known to be present only as a trace impurity in the finished product: NONE See Section 8 of this SDS for any noted exposure limits for these compounds. This Safety Data Sheet (SDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200 The listed components are considered to be hazardous under that standard.