



SAFETY DATA SHEET

The M&R Companies

1. Identification

Product name DS-BLACK-5
 Issue date 09-JAN-2018
 Recommended use Use in accordance with supplier's recommendations.
 Recommended Restrictions Industrial Use Only
 Company information The M&R Companies
 440 Medinah Road. Roselle, IL 60172
 Phone number: (800)796-6431
 Chemtrec emergency number: Within US and Canada: 1-800-441-3637
 Outside US and Canada: +1-703-527-3887

2. Hazards identification

GHS classification
 Physical hazards Not classified.
 Health hazards Not classified.
 Environmental hazards Hazardous to the aquatic environment, acute hazard Category 3 (40.38 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.)
 Other hazards which do not result in classification Not classified.

GHS label elements
 Symbols None.
 Signal word None.
 Hazard statement Harmful to aquatic life.

Precautionary statement
 Prevention Avoid release to the environment.
 Response None.
 Storage None.
 Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Specific hazards Prolonged exposure may cause chronic effects.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property

Chemical property	CAS #	Concentration (%)
Water	7732-18-5	45-55
carbon black	1333-86-4	<20
2-(2-Butoxyethoxy)ethanol	112-34-5	3 - < 5
2,2'-OXYDIETHANOL	111-46-6	10- < 20

4. First aid measures

First aid procedures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
 Skin Rinse skin with water/shower. Get medical attention if irritation develops and persists.
 Eye Rinse with water. Get medical attention if irritation develops and persists.
 Ingestion Get medical advice/attention if you feel unwell. Rinse mouth. If ingestion of a large amount does occur, call a poison control centre immediately.

Most important symptoms and effects, both acute and delayed Prolonged exposure may cause chronic effects.

Notes to physician Not available

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Avoid water in straight hose stream; will scatter and spread fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Water runoff can cause environmental damage.

6. Accidental release measures

Personal precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8. Wear suitable protective clothing, gloves and eye/face protection.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
Methods and materials for containment and cleaning up	<p>This product is miscible in water.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapours or divert vapour cloud drift. Prevent entry into waterways, sewer, basements or confined areas.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. For waste disposal, see section 13.</p>

7. Handling and storage

Handling	Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
Storage	Store in a cool, dry place out of direct sunlight.

8. Exposure controls / personal protection

Control parameters

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
carbon black (CAS 1333-86-4)	TWA	3 mg/m ³	Inhalable fraction.

Engineering controls Provide adequate general and local exhaust ventilation.

Personal protective equipment

Eye/face protection	Chemical goggles and face shield are recommended.
Skin protection	Wear suitable protective clothing.
Respiratory protection	Chemical respirator with organic vapour cartridge.
Hand protection	Wear appropriate chemical resistant gloves.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Colour	Black.
Form	Liquid.
Odour	Slight.
Odour threshold	Not available.

pH	7 - 10
Melting point	Not available.
Freezing point	Not available.
Boiling point	> 100.0 °C (> 212.0 °F)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Flammability limits in air, lower, % by volume	Not available.
Flammability limits in air, upper, % by volume	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Solubility(ies)	
Solubility (water)	dispersible in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	< 15 mPa·s @25°C
Specific gravity	Not available.
Density	1.05 - 1.15 g/cm ³ @25°C
Other data	
Surface tension	30 - 40 mN/m @25°C

10. Stability and reactivity

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Toxicological data		
Components	Species	Test results
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)		
Acute		
Dermal		
LD50	Rat	2000 mg/kg
Oral		
LD50	Rat	5000 mg/kg
carbon black (CAS 1333-86-4)		
Acute		
Oral		
LD50	Rat	> 8000 mg/kg
Routes of exposure	Inhalation.	
Acute toxicity	Based on available data, the classification criteria are not met	
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory sensitiser	Not available.	
Skin sensitisation	Not available.	
Mutagenicity	Not available.	

Carcinogenicity IARC's overall evaluation was that "Carbon black is possibly carcinogenic to humans (Group 2B)." However, this conclusion was based on studies of only one animal species (rat). Furthermore, as a result of the detailed epidemiological investigations, no causative link between carbon black exposure and cancer risk in humans has been demonstrated. UN GHS says, that even if adverse effects are seen in animal studies or in-vitro tests, no classification is needed if the mechanism or mode of action is not relevant to humans.

ACGIH Carcinogens

carbon black (CAS 1333-86-4)

A3 Confirmed animal carcinogen with unknown relevance to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

Reproductive toxicity Not available.
Specific target organ toxicity - single exposure Not available.
Specific target organ toxicity - repeated exposure Not available.
Aspiration hazard Not available.

12. Ecological information

Ecotoxicological data

Components		Species	Test results
2-(2-Butoxyethoxy)ethanol (CAS 112-34-5)			
Aquatic			
Acute			
Algae	EC50	Green algae (<i>Scenedesmus bijugatus</i>)	> 100 mg/l, 96 hours
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 hours
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	1300 mg/l, 96 hours
carbon black (CAS 1333-86-4)			
Aquatic			
Algae			
Crustacea	EC50	zebra fish(<i>Brachydanio rerio</i>)	> 1000 mg/l, 96 h
Aquatic			
Algae	NOEC	Green algae (<i>Desmodesmus subspicatus</i>)	> 10000 mg/l, days
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	> 5600 mg/l, 24 h
Ecotoxicity	Harmful to aquatic life. Contains a substance which causes risk of hazardous effects to the environment.		
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulation	No data available for this product.		
Mobility	This product is miscible in water.		

13. Disposal considerations

Disposal methods Dispose of contents/container in accordance with local/regional/national/international regulations. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. This material and its container must be disposed of as hazardous waste.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

ADR
Not regulated as dangerous goods.

RID
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

15. Regulatory information

Regulatory information

Montreal Protocol

Not applicable.

Rotterdam Convention

Not applicable.

Stockholm Convention

Not applicable.

16. Other information

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. This product is intended for industrial use only. Should it ever be applied for medical or other purposes, this is completely the responsibility of the purchaser. Ingesting or injecting this product or using it in such a manner that some of it might remain within the body is forbidden. Do not do this under any circumstances. This information is based upon the latest data available to us, but should not be read as a guarantee of the contents, physical properties or danger and harmfulness levels. Since all chemicals may have hitherto unknown deleterious properties, care should always be taken during use. It is the responsibility of every user to establish the necessary safety precautions before employment. In addition, the present information is intended for normal usage; however, if special usage is contemplated, then the appropriate safety precautions and application conditions should be carefully prepared.