

BRAMPTON TECHNOLOGY LTD

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : CARBON BLACK

Product code : EH-82870

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300 || Int'l +1 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Irrit. 2 H315

Skin Sens. 1 H317

Aquatic Acute 2 H401

Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07



GHS09

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) :

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US):

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash hands thoroughly after handling

P272 - Contaminated work clothing must not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P321 - See first aid section of this material safety data sheet

P332+P313 - If skin irritation occurs: Get medical advice/attention

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P362+P364 - Take off contaminated clothing and wash it before reuse

P363 - Wash contaminated clothing before reuse

P391 - Collect spillage

P501 - Dispose of contents/container in accordance with local, regional, national, international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	Classification (GHS-US)
Epoxy resins, liquids, MM<=700	(CAS No) 25068-38-6	74.7% Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Diglycidyl ether of Bisphenol F	(CAS No) 9003-36-5	1% Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. See first aid section of this material safety data sheet. If skin irritation or rash occurs: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice /attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

Symptoms/injuries after skin contact : Causes skin irritation. Irritation. May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Sand. Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment: Collect spillage.

Methods for cleaning up: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good

ventilation in process area to prevent formation of vapor. Avoid contact with skin and eyes.

Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures: Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep in a cool, well-ventilated place. Keep container closed when not in use. Store in a well ventilated place. Keep cool.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

CARBON BLACK (LOW VISCOSITY)

ACGIH Not applicable OSHA Not applicable

epoxy resins, liquids, MM<=700 (25068-38-6)

ACGIH Not applicable OSHA Not applicable

Diglycidyl ether of Bisphenol F (9003-36-5)

ACGIH Not applicable OSHA Not applicable

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses. Safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask.

Environmental exposure controls: Avoid release to the environment.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Color: Black

Odor: characteristic

Freezing point: No data available

Boiling point: No data available

Flash point: > 200 °F

Relative evaporation rate (butyl acetate=1): No data available

Percent Solids (calculated value): 99.200 %

Density (calculated value): 10.353 lb/gal

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

epoxy resins, liquids, MM<=700 (25068-38-6)

LD50 oral rat > 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)

LD50 dermal rat > 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation: May cause an allergic skin reaction.

Symptoms/injuries after skin contact: Causes skin irritation. Irritation. May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

Ecology - water: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

epoxy resins, liquids, MM<=700 (25068-38-6)

LC50 fish 1 1.2 mg/l (96 h; Oncorhynchus mykiss; Lethal)

EC50 Daphnia 1 1.1 - 2.8 mg/l (48 h; Daphnia magna; Locomotor effect)

LC50 fish 2 2.3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)

Threshold limit algae 1 > 11 mg/l (72 h; Scenedesmus sp.)

Threshold limit algae 2 4.2 mg/l (72 h; Scenedesmus sp.)

12.2. Persistence and degradability

CARBON BLACK (LOW VISCOSITY)

Persistence and degradability May cause long-term adverse effects in the environment.

epoxy resins, liquids, MM<=700 (25068-38-6)

Persistence and degradability Not readily biodegradable in water. Hydrolysis in water. Low potential for adsorption in soil.

12.3. Bioaccumulative potential

CARBON BLACK (LOW VISCOSITY)

Bioaccumulative potential Not established.

epoxy resins, liquids, MM<=700 (25068-38-6)

BCF other aquatic organisms 1 3 - 31

Log Pow >= 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)

Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

epoxy resins, liquids, MM<=700 (25068-38-6)

Surface tension 0.0587-0.0589, 20 °C

12.5. Other adverse effects

Effect on the global warming: No known ecological damage caused by this product.

Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

Additional information

Other information: No supplementary information available.

ADR No additional information available

Transport by sea

UN-No. (IMDG): 3082

Proper Shipping Name (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Class (IMDG): 9 - Miscellaneous dangerous compounds

Packing group (IMDG): III - substances presenting low danger

Air transport

UN-No.(IATA): 3082

Proper Shipping Name (IATA): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Class (IATA): 9 - Miscellaneous Dangerous Goods

Packing group (IATA): III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory

Diglycidyl ether of Bisphenol F (9003-36-5)

EPA TSCA Regulatory Flag XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40CFR 710(C)).

----- H401 Toxic to aquatic life
----- H411 Toxic to aquatic life with long lasting effects

15.2. International regulations

CANADA No additional information available
EU-Regulations No additional information available
Classification according to Regulation (EC) No. 1272/2008 [CLP] No additional information available
Classification according to Directive 67/548/EEC or 1999/45/EC Not classified
National regulations
carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of

California to cause cancer and/or reproductive toxicity
carbon black (1333-86-4)

U.S. - California -

Proposition 65 -

Carcinogens List

U.S. - California -

Proposition 65 -

Developmental Toxicity

U.S. - California -

Proposition 65 -

Reproductive Toxicity -

Female

U.S. - California -

Proposition 65 -

Reproductive Toxicity -

Male

No significance risk

level (NSRL)

Yes No No No

U.S. - California - Proposition 65 - Other information Must be airborne, unbound, and of a particle size <10

micrometers in diameter to

qualify as a Proposition 65 Substance

carbon black (1333-86-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Revision date: 10/08/2015

Other information: None.

Full text of H-phrases::

----- Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2

----- Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2

----- Skin Irrit. 2 Skin corrosion/irritation Category 2

----- Skin Sens. 1 Skin sensitization Category 1

----- H315 Causes skin irritation

----- H317 May cause an allergic skin reaction