

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 05.26.2016

Temvulc Black Cement

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

1.1 Product identifier

Material Name: Temvulc Black Cement

Product code: 1082, 1082G, 1082-5G, 1082-55G

Additional information: Rev. 1.0

1.2 Relevant identified uses of the substance or mixture and uses advised against: Rubber Adhesive

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

Tech International, Inc.
200 East Coshoton Street
Johnstown, OH 43031
1-740-967-9015

Emergency telephone number:

CHEMTREC

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

2 Hazards identification

2.1 Classification of the substance or mixture:

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

Flammable liquids, category 2.

Skin sensitization, category 1.

Acute aquatic hazard, category 3.

Chronic aquatic hazard, category 3.

Hazard-determining components of labeling:

Insoluble Sulfur

Zinc oxide

Benzothiazole Disulfide

2.2 Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/light/equipment.

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P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P272 Contaminated work clothing should 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 soap and water.
 P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.
 P321 Specific treatment (see supplemental first aid instructions on this label).
 P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 P370+P378 In case of fire: Use agents recommended in section 5 for extinction.
 P403+P235 Store in a well ventilated place. Keep cool.
 P501 Dispose of contents and container as instructed in Section 13.

2.3 Other hazards: None known

Information concerning particular hazards for humans and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

3 Composition/information on ingredients

3.1 Chemical characterization: Mixture.

3.2 Description: None

3.3 Hazardous components (percentages by weight)

Identification	Name	Classification	Wt. %
CAS number: 64742-89-8	Light Aliphatic Naphtha	Asp. Tox. 1; H304	80-90
CAS number: 9003-31-0	Natural Rubber		5-10
CAS number: 57-11-4	Stearic acid	Skin Irrit. 2 ; H315	0.2-0.4
CAS number: 1314-13-2	Zinc oxide	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.7-0.9
CAS number: 1333-86-4	Carbon black	Carc. 2; H351	2-5
CAS number: 9035-99-8	Insoluble Sulfur	Eye Irrit. 2; H319	0.2-0.4

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CAS number: 8016-81-7	Tall Oil Pitch		0.75-1.25
CAS number: 8002-26-4	Tall Oil	Aquatic Acute 3; H402	0.2-0.3
CAS number: 120-78-5	Benzothiazole Disulfide	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.1-0.15

3.4 Additional information:

According to Note P of the European Directive 67/548/CEE, the substance "naphta (oil)" should not be classified as a "carcinogenic" ingredient, because the benzene content (number EINECS 200-753-7) is lower than 0.1% in weight.

4 First aid measures

4.1 Description of first aid measures

General information: None.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position.
Maintain an unobstructed airway.

After skin contact:

Rinse affected area with soap and water.
If symptoms develop or persist, seek medical attention.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.
If symptoms develop or persist, seek medical attention.

After swallowing:

Rinse mouth thoroughly.
Seek medical attention if irritation, discomfort, or vomiting persists.

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

None

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

No additional information.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use water as an extinguisher.

5.2 Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.
Vapors can flow to distant ignition sources and flashback.
Liquid is volatile and may generate an explosive atmosphere.

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5.3 Advice for firefighters

Protective equipment:

Wear protective eye wear, gloves and clothing.
Refer to Section 8.

5.4 Additional information:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.
Avoid contact with skin, eyes and clothing.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.
Ensure air handling systems are operational.
Beware of vapors accumulating to form explosive concentrations.
Vapors can accumulate in low areas.

6.2 Environmental precautions:

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing.
Use spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections: None

7 Handling and storage

7.1 Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.
Avoid breathing mist or vapor.
Use only non-sparking tools.
Take precautionary measures against electrostatic discharges.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.
Keep container tightly sealed.
Keep away from all ignition sources: open flames, hot surfaces, direct sunlight, spark sources.
Store locked up.
Use appropriate containment to avoid environmental contamination.
Protect from freezing and physical damage.

7.3 Specific end use(s): No additional information.

8 Exposure controls/personal protection



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8.1 Control parameters:

1333-86-4, Carbon black, OSHA PEL (TWA): 3.5 mg/m³.

1314-13-2, Zinc oxide, OSHA PEL (TWA): 2.0 mg/m³.

1314-13-2, Zinc oxide, OSHA PEL (STEL): 10.0mg/m³.

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Use explosion-proof ventilation equipment.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

Protection of skin:

Select glove material impermeable and resistant to the substance.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified.

Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Always seek advice from glove suppliers.

Eye protection:

Safety goggles or glasses, or appropriate eye protection.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance (physical state, color):	Black Viscous Liquid	Explosion limit lower: Explosion limit upper:	1.3% 8.0%
Odor:	Strong Solvent	Vapor pressure:	40 mmHg @ 20°C
Odor threshold:	Not determined or not available.	Vapor density:	Not determined or not available.
pH-value:	Not determined or not available.	Relative density:	0.79 g/cm ³ (6.63 lb/gal) at 68° F
Melting/Freezing point:	Not determined or not available.	Solubilities:	Soluble in most organic solvents.
Boiling point/range:	200-240°F (93.3-115.6°C)	Partition coefficient (n-octanol/water):	Not determined or not available.
Flash point (closed cup):	19.4°F (-7°C)	Auto/Self-ignition temperature:	Not determined or not available.
Evaporation rate:	3.5 (n-BuAC=1)	Decomposition temperature:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.	Dynamic viscosity:	750 cps at 25°C
Density:	Not determined or not available.	Kinematic viscosity:	Not determined or not available.

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10 Stability and reactivity

- 10.1 Reactivity:** Does not react under normal conditions of use and storage.
- 10.2 Chemical stability:** Stable under normal conditions of use and storage.
- 10.3 Possibility of hazardous reactions:** None under normal conditions of use and storage.
- 10.4 Conditions to avoid:** None known.
- 10.5 Incompatible materials:** None known.
- 10.6 Hazardous decomposition products:** None known.

11 Toxicological information

11.1 Information on toxicological effects:

Routes of exposure: No information available.

Acute toxicity:

Oral:

Carbon black: LD50: Rat - > 8,000 mg/kg.

Stearic acid: LD50: Rat - > 2,000 mg/kg.

Dermal:

Carbon black: LD50: Rabbit - > 3,000 mg/kg.

Stearic acid: LD50: Rabbit - > 5,000 mg/kg.

Skin corrosion/irritation: No additional information.

Serious eye damage/irritation: No additional information.

Respiratory or skin sensitization:

Zinc oxide: Mild skin irritation - 24 h.

Zinc oxide: Risk of serious damage to eyes. - 1 h.

Benzothiazole Disulfide: May cause sensitization by skin contact.

Carcinogenicity:

: According to Note P of ECHA Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation), Solvent naphtha (petroleum), light aliphatic need not be labeled a carcinogen if it can be shown that the substance contains less than 0.1% w/w benzene (EINECS No 200-753-7).

IARC (International Agency for Research on Cancer):

Group 3 - Not classifiable as to its carcinogenicity to humans: Natural Rubber.

Group 2B - Possibly carcinogenic to humans: Carbon black.

NTP (National Toxicology Program): None of the ingredients are listed.

Germ cell mutagenicity:

Light Aliphatic Naphtha: According to Note P of ECHA Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation), Solvent naphtha (petroleum), light aliphatic need not be labeled a mutagen if it can be shown that the substance contains less than 0.1% w/w benzene (EINECS No 200-753-7).

Carbon black: Ames test S. Typhimurium negative.

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Zinc oxide: Hamster embryo unscheduled DNA synthesis.

Reproductive Toxicity: No additional information.

STOT-single and repeated exposure: No additional information.

Aspiration toxicity: No information available.

Additional toxicological information:

No additional information.

12 Ecological information

12.1 Toxicity:

Carbon black: Fish, Danio rerio (zebra fish) - > 1,000 mg/l - 96 h.

Carbon black: Aquatic invertebrates, Daphnia magna (Water flea) - > 5,600 mg/l - 24 h.

Carbon black: Aquatic Plants, Desmodesmus subspicatus (green algae) - > 10,000 mg/l - 72 h.

Zinc oxide: Fish, Oncorhynchus mykiss (rainbow trout) - 1.1 mg/l - 96.0 h.

Zinc oxide: Aquatic invertebrates, Daphnia magna (Water flea) - 0.098 mg/l - 48 h.

12.2 Persistence and degradability:

No additional information.

12.3 Bioaccumulative potential:

No additional information.

12.4 Mobility in soil:

No additional information.

General notes:

No additional information.

12.5 Results of PBT and vPvB assessment:

PBT: No additional information.

vPvB: No additional information.

12.6 Other adverse effects:

No additional information.

13 Disposal considerations

13.1 Waste treatment methods

Relevant information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

14 Transport information

Land transport:

DOT (49 CFR) transport


14.1 UN Number:	1133
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14.2 UN Proper shipping name:	Adhesives, containing a flammable liquid
14.3 UN Transport hazard classes:	3
14.4 Packing group:	II
Danger label:	3 Flammable liquids 
14.5 Environmental hazards:	No
14.6 Special precautions for user:	None
Limited quantity:	5L

ADR/RID

14.1 UN Number:	1133
14.2 UN Proper shipping name:	Adhesives, containing a flammable liquid
14.3 UN Transport hazard classes:	3
14.4 Packing group:	II
Danger label:	3 Flammable liquids 
Tunnel restriction code:	(D/E)
Transport category:	2
Hazard ID number:	33
14.5 Environmental hazards:	No
14.6 Special precautions for user:	None
Limited quantity:	5L
Quantity exception:	E2

Air transport:

IATA-DGR


14.1 UN Number:	1133
14.2 UN Proper shipping name:	Adhesives, containing a flammable liquid
14.3 UN Transport hazard classes:	3
14.4 Packing group:	II

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Danger label:	3 Flammable liquids 
14.5 Environmental hazards:	No
14.6 Special precautions for user:	None
Limited quantity:	1L
Quantity exception:	E2

Sea transport:

IMDG

14.1 UN Number:	1133
14.2 UN Proper shipping name:	Adhesives, containing a flammable liquid
14.3 UN Transport hazard classes:	3
14.4 Packing group:	II
Danger label:	3 Flammable liquids 
EMS code:	F-E, S-D
14.5 Environmental hazards:	No
14.6 Special precautions for user:	None
Limited quantity:	5L
Quantity exception:	E2
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

North American

SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic, Fire

SARA Section 302 (Extremely hazardous substances): None of the ingredients are listed.

SARA Section 313 (Specific toxic chemical listings):

1314-13-2 Zinc oxide.

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TSCA (Toxic Substances Control Act):

All ingredients are listed.

TSCA Rules and Orders: Not applicable.

Proposition 65 (California):**Chemicals known to cause cancer:**

1333-86-4 Carbon black.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Canada**Canadian Domestic Substances List (DSL):**

All ingredients are listed.

European Union

REACH Article 57 (SVHC): None of the ingredients are listed.

Germany MAK: Not classified.

Australia**Australian Inventory of Chemical Substances (AICS):**

All ingredients are listed.

China**Inventory of Existing Chemical Substances in China (IECSC):**

All ingredients are listed.

Japan**Inventory of Existing and New Chemical Substances (ENCS):**

All ingredients are listed.

Korea**Existing Chemicals List (ECL):**

All ingredients are listed.

New Zealand**New Zealand Inventory of Chemicals (NZOIC):**

All ingredients are listed.

Philippines**Philippine Inventory of Chemicals and Chemical Substances (PICCS):**

All ingredients are listed.

Taiwan**Taiwan Chemical Substance Inventory (TSCI):**

All ingredients are listed.

16 Other information

Abbreviations and Acronyms: None

Manufacturer Statement:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility

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to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 1-3-0

HMIS: 1-3-0