



Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200) and WHMIS 2015 regulations

Printing date 12/01/2015

Reviewed on 12/01/2015

1 Identification

- **Product identifier**
- **Trade name:** Powermelt Carbon Fuel Slab
Powermelt Carbon Fuel Briquette
Powermelt Carbon Fuel Briquette w/Si-C
- **Article number:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Industrial uses.
- **Restrictions on use:** Contact manufacturer
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
DAUBER COMPANY INC.
577 N 18th Road
Tonica, IL 61370
(815) 442-3569
- **Emergency telephone number:** (815) 442-3569

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Germ Cell Mutagenicity - Category 1B H340 May cause genetic defects.

Carcinogenicity - Category 1A H350 May cause cancer.

Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child. Route of exposure:
Dermal.

- **Additional information:**

Long term inhalation of product dust may be harmful.

There are no other hazards not otherwise classified that have been identified.

0 % of the mixture consists of component(s) of unknown toxicity.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS08

- **Signal word:** Danger

- **Hazard-determining components of labeling:**

Pitch, coal tar, high-temp.

- **Hazard statements:**

H340 May cause genetic defects.

H350 May cause cancer.

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H360 May damage fertility or the unborn child. Route of exposure: Dermal.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves/protective clothing/eye protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization: Mixtures**Description:** Mixture of the substances listed below with nonhazardous additions.**Dangerous components:**

409-21-2	silicon carbide	<20%
7782-42-5	Graphite	<15%
65996-77-2	Coke (coal) Combustible Dusts - Category 1	<15%
65997-15-1	Cement, portland, chemicals	<12%
68187-59-7	Calcined anthracite Combustible Dusts - Category 1	<6%
14808-60-7	quartz	<5%
65996-93-2	Pitch, coal tar, high-temp. PBT Germ Cell Mutagenicity - Category 1B, H340; Carcinogenicity - Category 1A, H350; Reproductive Toxicity - Category 1B, H360	<1%

Additional information:

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

4 First-aid measures

Description of first aid measures

- General information:** No special measures required.
- After inhalation:** Supply fresh air; consult doctor in case of complaints.
- After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation is experienced, consult a doctor.
- After eye contact:**
Remove contact lenses if worn, if possible.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:**
Rinse out mouth and then drink plenty of water.

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Do not induce vomiting; immediately call for medical help.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed:**

Breathing difficulty

Coughing

Nausea in case of ingestion.

Gastric or intestinal disorders when ingested.

Vomiting.

Diarrhea.

· **Danger:**

Danger of impaired breathing.

Danger of pulmonary edema.

Danger of pneumonia.

May cause cancer.

May cause genetic defects.

May damage fertility or the unborn child. Route of exposure: Dermal.

May cause harm to breast-fed children.

· **Indication of any immediate medical attention and special treatment needed:**

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Water fog / haze

Carbon dioxide

Gaseous extinguishing agents

Fire-extinguishing powder

· **For safety reasons unsuitable extinguishing agents:** Water spray

· **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information:** No relevant information available.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation.

Avoid formation of dust.

Do not breathe dust.

· **Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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- **Methods and material for containment and cleaning up:**
 Pick up mechanically.
 Dispose contaminated material as waste according to item 13.
 Send for recovery or disposal in suitable receptacles.
- **Reference to other sections:**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
 Use only in well ventilated areas.
 Use proper precautions around molten material.
 Prevent formation of dust.
 Any deposit of dust which cannot be avoided must be regularly removed.
- **Information about protection against explosions and fires:**
 Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

409-21-2 silicon carbide

PEL (USA)	Long-term value: 15* 5** mg/m ³ fibrous dust: *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV (USA)	Long-term value: 10* 3** mg/m ³ fibrous dust:0.1 f/cc; nonfibrous:*inh., **resp.
EL (Canada)	Long-term value: 10* 3** mg/m ³ *inhalable;**respirable
EV (Canada)	Long-term value: 10* 3** mg/m ³ , 0.1f/cc*** ppm nonfibrous: *inh.,**resp.; ***fibrous, resp.

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LMPE (Mexico) Long-term value: 10* 3** mg/m³
 fibroso:0.1f/cc,A2,F;no fibroso: *inh.,**resp.

7782-42-5 Graphite

PEL (USA) Long-term value: 15 mppcf* mg/m³
 *impinger samples counted by light field techn.

REL (USA) Long-term value: 2.5* mg/m³
 *respirable dust

TLV (USA) Long-term value: 2* mg/m³
 all forms except graphite fibers;*resp. fraction

EL (Canada) Long-term value: 2 mg/m³
 respirable

EV (Canada) Long-term value: 2 mg/m³
 respirable

LMPE (Mexico) Long-term value: 2* mg/m³
 *fracción respirable

65997-15-1 Cement, portland, chemicals

PEL (USA) Long-term value: 50 mppcf or 15* 5** mg/m³
 *total dust **respirable fraction

REL (USA) Long-term value: 10* 5** mg/m³
 *total dust **respirable fraction

TLV (USA) Long-term value: 1* mg/m³
 E; *as respirable fraction

EL (Canada) Long-term value: 1 mg/m³
 respirable

EV (Canada) Long-term value: 10(D) mg/m³
 total dust

LMPE (Mexico) Long-term value: 1* mg/m³
 A4, *fracción respirable

14808-60-7 quartz

PEL (USA) see Quartz listing

REL (USA) Long-term value: 0.05* mg/m³
 *respirable dust; See Pocket Guide App. A

TLV (USA) Long-term value: 0.025* mg/m³
 *as respirable fraction

EL (Canada) Long-term value: 0.025 mg/m³
 ACGIH A2; IARC 1

EV (Canada) Long-term value: 0.10* mg/m³
 *respirable fraction

LMPE (Mexico) Long-term value: 0.025* mg/m³
 A2, *fracción respirable

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65996-93-2 Pitch, coal tar, high-temp.

PEL (USA)	Long-term value: 0.2 mg/m ³
REL (USA)	Long-term value: 0.1* mg/m ³ *Cyclohexane-extrble.fraction;PocketGuide Apps.A+C
TLV (USA)	Long-term value: 0.2 mg/m ³ BEIp
EL (Canada)	Long-term value: 0.2 mg/m ³ soluble aerosol; ACGIH A1; IARC 1
EV (Canada)	Long-term value: 0.2 mg/m ³ as total benzene-soluble compounds
LMPE (Mexico)	Long-term value: 0.2 mg/m ³ A1, IBEp

Ingredients with biological limit values:**65996-93-2 Pitch, coal tar, high-temp.**

BEI (USA)	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
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Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not breathe dust.

Avoid contact with the eyes and skin.

Engineering controls: No relevant information available.**Breathing equipment:**

Not required under normal conditions of use.

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

For spills, respiratory protection may be advisable.

Particulate mask should filter at least 99% of airborne particles.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Wear gloves for the protection against mechanical hazards according to OSHA and NIOSH rules.

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· **Eye protection:**

Safety glasses

- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment** Avoid release to the environment.
- **Risk management measures** See Section 7 for additional information.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General information**· **Appearance:**

· Form:	Solid material
· Color:	Dark grey
· Odor:	Musty.
· Odor threshold:	Not determined.

· **pH-value:** Not applicable.· **Change in condition:**

· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.

· **Flash point:** Not applicable.· **Flammability (solid, gaseous):** Not determined.· **Auto-ignition temperature:** Not determined.· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not self-igniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Oxidizing properties:** Not determined.· **Vapor pressure:** Not determined.· **Density:** Not determined.· **Relative density:** Not determined.· **Vapor density:** Not applicable.· **Evaporation rate:** Not applicable.· **Solubility in / Miscibility with:**· **Water:** Insoluble.

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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not applicable.
 - Kinematic:** Not applicable.
- **Other information** No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:**
As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.
- **Conditions to avoid:** Prevent formation of dust.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

65996-93-2 Pitch, coal tar, high-temp.

Oral | LD50 | 1800 mg/kg (rat)

- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

14808-60-7	quartz	1
65996-93-2	Pitch, coal tar, high-temp.	1

- **NTP (National Toxicology Program):**

14808-60-7	quartz	K
65996-93-2	Pitch, coal tar, high-temp.	K

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

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- **Probable route(s) of exposure:**
Ingestion.
Eye contact.
Skin contact.
- **Repeated dose toxicity:** Danger of very serious irreversible effects.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Germ Cell Mutagenicity - Category 1B, Carcinogenicity - Category 1A, Reproductive Toxicity - Category 1B
- **Germ cell mutagenicity:** May cause genetic defects.
- **Carcinogenicity:** May cause cancer.
- **Reproductive toxicity:** May damage fertility or the unborn child. Route of exposure: Dermal.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**
Very toxic to aquatic life.

65996-93-2 Pitch, coal tar, high-temp.

LC50 (static) | 0.01 mg/l (daphnia)

- **Persistence and degradability:** No relevant information available.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for water fleas.
- **Additional ecological information**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
- **Results of PBT and vPvB assessment**

PBT:

65996-93-2 | Pitch, coal tar, high-temp.

- **vPvB:** Not applicable.
- **Other adverse effects:** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number · DOT, ADR, IMDG, IATA	UN3077
· UN proper shipping name · DOT · ADR · IMDG · IATA	Environmentally hazardous substances, solid, n.o.s. (Coal tar pitch) 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COAL TAR PITCH) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COAL TAR PITCH), MARINE POLLUTANT Environmentally hazardous substance, solid, n.o.s. (Coal tar pitch)
· Transport hazard class(es) · DOT, IMDG, IATA	
 	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
· ADR	
 	
· Class · Label	9 (M7) Miscellaneous dangerous substances and articles 9
· Packing group · DOT, ADR, IMDG, IATA	III
· Environmental hazards · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous substances: Pitch, coal tar, high-temp. Yes (DOT) Symbol (fish and tree) Symbol (fish and tree)

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· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· Danger code (Kemler):	90
· EMS Number:	F-A,S-F
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not regulated when carried in single or combination packaging containing a net quantity of 5L or less for liquids or 5 kg or less for solids per the following: DOT: 171.4(2) ADR: SP 375 IMDG: 2.10.2.7 IATA: special provision A197
· DOT	
· Remarks:	Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid. Special marking with the symbol (fish and tree).
· UN "Model Regulation"	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (COAL TAR PITCH), 9, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· Section 302 (extremely hazardous substances):
--

None of the ingredients are listed.

· Section 304 (emergency release notification):
--

None of the ingredients are listed.

· Sections 311/312 (hazardous chemical threshold planning quantity in pounds):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):
--

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):
--

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)
--

All ingredients are listed.

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

14808-60-7 quartz

· 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.

· Carcinogenic categories**· EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

14808-60-7 quartz

1

65996-93-2 Pitch, coal tar, high-temp.

1

· NIOSH-Ca (National Institute for Occupational Safety and Health):

14808-60-7 quartz

65996-93-2 Pitch, coal tar, high-temp.

· Canada**· Canadian substance listings****· Canadian Domestic Substances List (DSL):**

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%):

65996-93-2 Pitch, coal tar, high-temp.

· Canadian Ingredient Disclosure list (limit 1%):

14808-60-7 quartz

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 12/01/2015 / -**· Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Germ Cell Mutagenicity - Category 1B: Germ cell mutagenicity, Hazard Category 1B

Carcinogenicity - Category 1A: Carcinogenicity, Hazard Category 1A

Reproductive Toxicity - Category 1B: Reproductive toxicity, Hazard Category 1B

• Sources

Website, European Chemicals Agency (<http://http://echa.europa.eu/>)

Website, US EPA Substance Registry Services (http://http://ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (<https://www.cas.org>)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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