

Sehr geehrte Damen und Herren,

wir erklären folgend die Zuordnung der Artikel zum beigefügten Sicherheitsdatenblatt.

Lieferant ist:

Cobb Scandinavia

Laufende Nummer aus dem Gefahrgutkataster:
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Bad Waldsee, 14. Januar 2019

Safety Data Sheet



Version No. 01/EN
Revision N.A.
Printing date 19 Dec, 2013

(according to Regulation EC 1907/2006)

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name BRIQUETTE
Registration no. N.A.

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

Identified uses Fuel, Activated carbon

1.3 Details of the supplier of the safety data sheet

Company

Telephone

E-mail

1.4 Emergency telephone number

This number is serviced during office hours only.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin irritation (Category 2)

Eye irritation (Category 2)

2.1.2. Classification according to Directive 1999/45/EC

Irritating to eyes, skin.

2.2 Label elements

Symbol



Signal word

WARNING

Hazard Statement

H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statement

Prevention

P264 Wash thoroughly after handling.

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

Response

P321 Specific treatment reference to supplemental first aid instruction.

P362 Take off contaminated clothing and wash before reuse.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

- Storage

None

- Disposal

None

2.3. Other hazards

HMIS Hazard Rating:

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COMPONENTS	HEALTH	FLAMMABILITY	REACTIVITY
Coconut Shell charcoal	1	2	2
Barium nitrate	2	0	0
Sodium nitrate	1	0	0
Corn Starch	1	1	0

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixture

Components	%	Classification
Coconut Shell charcoal (CAS 16291-96-6)	72 %	<p>Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.</p> <p>This substance is not classified as dangerous according to Directive 67/548/EEC.</p>
Barium nitrate (CAS No. 10022-31-8)	20 %	<p>Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]</p> <ul style="list-style-type: none"> - Oxidizing solids (Category 2) - Acute toxicity, Oral (Category 4) - Acute toxicity, Inhalation (Category 4) <p>Pictogram</p> <p>Signal word: Danger</p> <p>Hazard statement(s)</p> <ul style="list-style-type: none"> - H272 May intensify fire; oxidiser. - H302 Harmful if swallowed. - H332 Harmful if inhaled. <p>Precautionary statement(s)</p> <ul style="list-style-type: none"> - P220 Keep/Store away from clothing/ combustible materials. <p>Classification according to EU Directives 67/548/EEC or 1999/45/EC</p> <p>Contact with combustible material may cause fire. Harmful by inhalation and if swallowed.</p> <p>Hazard symbol(s)</p> <p>R-phrases(s)</p> <ul style="list-style-type: none"> - R 8 Contact with combustible material may cause fire. - R20/22 Harmful by inhalation and if swallowed. <p>S-phrases(s)</p> <ul style="list-style-type: none"> - S28 After contact with skin, wash immediately with plenty of soap and water.

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Components	%	Classification
Sodium nitrate (CAS No. 7631-99-4)	5 %	<p>Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]</p> <ul style="list-style-type: none"> - Oxidizing solids (Category 3) - Acute toxicity, Oral (Category 4) - Skin irritation (Category 2) - Eye irritation (Category 2) - STOT - single exposure (Category 3) <p>Pictogram</p> <p>Signal word Warning</p> <p>Hazard statement(s)</p> <p>H272 May intensify fire; oxidiser.</p> <p>H302 Harmful if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p> <p>Precautionary statement(s)</p> <p>P220 Keep/Store away from clothing/ combustible materials.</p> <p>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>Classification according to EU Directives 67/548/EEC or 1999/45/EC</p> <p>Contact with combustible material may cause fire. Harmful if swallowed.</p> <p>Irritating to eyes, respiratory system and skin.</p> <p>Hazard symbol(s)</p> <p>R-phrases(s)</p> <ul style="list-style-type: none"> - R 8 Contact with combustible material may cause fire. - R22 Harmful if swallowed. - R36/37/38 Irritating to eyes, respiratory system and skin. <p>S-phrases(s)</p> <ul style="list-style-type: none"> - S17 Keep away from combustible material. - S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Corn Starch (CAS No. 9005-25-8)	3 %	<p>Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.</p> <p>This substance is not classified as dangerous according to Directive 67/548/EEC.</p>

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4. FIRST AID MEASURES

4.1 Description of first aid measures

- | | |
|--------------|--|
| Inhalation | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Skin contact | Wash off with soap and plenty of water. Cover the irritated skin with an emollient. Consult a physician. |
| Eye contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs. |
| Ingestion | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. |

4.2 Most important symptoms and effects, both acute and delayed

Absorption into the body leads to the formation of met hemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx), Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Special Information

Not available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Occupational exposure limits

Components	Local (TWA)	OSHA (PEL)	ACGIH (TLV)
Coconut Shell charcoal	No data available	No data available	No data available
Barium nitrate	No data available	No data available	No data available
Sodium nitrate	No data available	No data available	No data available
Corn Starch	10 mg/m ³	No data available	10 mg/m ³

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Personal protection equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Properties	Product	Coconut Shell charcoal	Barium nitrate	Sodium nitrate	Corn Starch
Appearance	Solid	Solid	Solid	Solid	Solid
Odor	odourless	odourless	odourless	odourless	odourless
Odor threshold	No data available	No data available	No data available	No data available	No data available
pH	Not applicable	Not applicable	5.0-8.0	No data available	5.0-7.0
Melting point/Freezing point	No data available	> 3500 °C	590 °C	306 °C	No data available
Boiling point and range	No data available	4200 °C	No data available	380 °C	No data available
Flash point	No data available	No data available	No data available	No data available	No data available
Evaporation rate	No data available	No data available	No data available	No data available	No data available
Flammability (solid, gas)	Flammable	Flammable	No data available	Non flammable	No data available
Upper/lower flammability or explosive limits	No data available	No data available	No data available	No data available	No data available
Vapor pressure	No data available	No data available	No data available	No data available	No data available
Vapor density	No data available	No data available	No data available	No data available	No data available
Relative density	No data available	1.95 g/mL	3.24 g/cm ³	2,261 g/cm ³	1.45 g/mL
Solubility	Insoluble	Insoluble	8.7 g/100 mL	92.1 g/100 mL	Insoluble
Partition coefficient: n-octanol/water	No data available	No data available	No data available	log P _{ow} : -3.8	No data available
Auto-ignition temperature	No data available	(316-399) °C	No data available	No data available	No data available
Decomposition temperature	No data available	No data available	No data available	No data available	No data available
Viscosity	No data available	No data available	No data available	No data available	No data available
Explosive properties	No data available	No data available	No data available	No data available	No data available
Oxidizing properties	No data available	No data available	Category 3.	Category 3.	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under normal conditions of use.
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	Fusion of mixtures of metal cyanides, including lead thiocyanate, with metal chlorates, perchlorates, nitrates or nitrites causes a violent explosion. Addition of one solid component (even as a residue in small amount) to another molten component is also highly dangerous. Heat.
10.5 Incompatible materials	Strong acids, Strong reducing agents, Powdered metals, Organic materials, Alkali metals, Alkaline earth metals, Cyanides, thiocyanates
10.6 Hazardous decomposition products	Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Routes of exposure	No data available
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11.2 Information on toxicological effects

Acute toxicity

Coconut Shell charcoal	No data available
Barium nitrate	Oral : LD50 355 mg/kg, Rat
Sodium nitrate	Oral : LD50 1267 mg/kg, Rat
Corn Starch	No data available

Skin corrosion/irritation

Coconut Shell charcoal	No data available
Barium nitrate	Mild skin irritation (Draize Test, Rabbit)
Sodium nitrate	No data available
Corn Starch	Mild skin irritation (3 h, Human)

Serious eye damage/irritation

Coconut Shell charcoal	No data available
Barium nitrate	Moderate eye irritation (Draize Test, Rabbit)
Sodium nitrate	No data available
Corn Starch	No data available

Respiratory or skin sensitisation

Coconut Shell charcoal	No data available
Barium nitrate	No data available
Sodium nitrate	No data available
Corn Starch	No data available

Germ cell mutagenicity

Coconut Shell charcoal	No data available
Barium nitrate	No data available
Sodium nitrate	No data available
Corn Starch	No data available

Carcinogenicity

	The International Agency for Research on Cancer (IARC), the National No data available Toxicology Program (NTP), and OSHA do not list steel products as carcinogens.
Coconut Shell charcoal	No data available
Barium nitrate	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Sodium nitrate	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Corn Starch	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Coconut Shell charcoal	No data available
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Barium nitrate	No data available
Sodium nitrate	No data available
Corn Starch	No data available
STOT-single exposure	
Coconut Shell charcoal	No data available
Barium nitrate	No data available
Sodium nitrate	No data available
Corn Starch	No data available
STOT-repeated exposure	
Coconut Shell charcoal	No data available
Barium nitrate	No data available
Sodium nitrate	No data available
Corn Starch	No data available
Aspiration hazard	
Coconut Shell charcoal	No data available
Barium nitrate	No data available
Sodium nitrate	No data available
Corn Starch	No data available
Potential health effects	Skin: May cause mild skin irritation. Low hazard for usual industrial handling. Eyes: Dust may cause mechanical irritation. Inhalation: Excessive inhalation may cause minor respiratory irritation. Ingestion: A low hazard for usual industrial handling Chronic Potential Health Effects: no information.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Coconut Shell charcoal	No data available
Barium nitrate	Fish : LC50 1900 mg/L, 96 hr
Sodium nitrate	Fish : LC50 5800 mg/L, 96 hr Daphnia : EC50 6000 mg/L, 24 h
Corn Starch	No data available

12.2 Persistence and degradability

No data available

12.4 Bioaccumulative potential

No data available

12.5 Mobility in soil

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Disposal instructions

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Waste from residues / unused products

No data available

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13.3 Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

- | | |
|------------------|---|
| - Barium nitrate | ADR/RID: 1446
IMDG: 1446
IATA: 1446 |
| - Sodium nitrate | ADR/RID: 1498
IMDG: 1498
IATA: 1498 |

14.2 UN proper shipping name

- | | |
|------------------|---|
| - Barium nitrate | ADR/RID: BARIUM NITRATE
IMDG: BARIUM NITRATE
IATA: Barium nitrate |
| - Sodium nitrate | ADR/RID: SODIUM NITRATE
IMDG: SODIUM NITRATE
IATA: Sodium nitrate |

14.3 Transport hazard class(es)

- | | |
|------------------|--|
| - Barium nitrate | ADR/RID: 5.1 (6.1)
IMDG: 5.1 (6.1)
IATA: 5.1 (6.1) |
| - Sodium nitrate | ADR/RID: 5.1
IMDG: 5.1
IATA: 5.1 |

14.4. Packing group

- | | |
|------------------|--|
| - Barium nitrate | ADR/RID: II
IMDG: II
IATA: II |
| - Sodium nitrate | ADR/RID: III
IMDG: III
IATA: III |

14.5. Environmental hazards

- | | |
|------------------|--|
| - Barium nitrate | ADR/RID: no
IMDG Marine pollutant: no
IATA: no |
| - Sodium nitrate | ADR/RID: no
IMDG Marine pollutant: no
IATA: no |

14.6. Special precautions for user

No data available

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15. REGULATORY INFORMATION

15.1 Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment:

No data available

15.3 Inventory status

No data available

16. OTHER INFORMATION

The contents and format of this MSDS/SDS are in accordance with Regulation (EC) No 1907/2006.

• References

KOSHA - Chemical information database system

Other MSDS (Sigma-aldrich, Science lab, Guidechem etc.,etc)

International Chemical Safety Cards (ICSC) (<http://www.nihs.go.jp/ICSC>)

ECB-ESIS(European chemical Substances Information System)

International Uniform Chemical Information Database (IUCIID) (<http://ecb.jrc.it/esis>)

• Abbreviation and acronyms

ACGIH - American Conference of Industrial Hygienists

ADR/RID - European Agreement concerning the international carriage of dangerous goods by road / Regulations concerning the International Carriage of Dangerous Goods by Rail

CAS - Chemical Abstracts Service

CEN - The European Committee for Standardization (French: Comité Européen de Normalisation)

CLP - Regulation on classification, labeling and packaging of substances and mixtures. (Directive 67/548/EEC)

DOT - U.S. Department of Transportation

EC - European Community

EC50 - 50 % effective concentration

EEC - The European Economic Community

GHS - Global Harmonized System

HMIS - Hazardous Materials Identification System

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods Codes

LD50 - 50 % lethal dose

NIOSH - National Institute of Occupational Safety & Health

NTP - The National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limits

STOT - Specific Target Organ Toxicity

TDG - Transportation of Dangerous Goods : Transportation of Dangerous Goods Regulations

TLV - Threshold Limit Values

TWA - Time Weighted Average

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