

Safety Data Sheet

according to 1907/2006/EC, 1272/2008/EC, and 2015/830/EC

Printing date: 16 October 2017

Revision: 16 October 2017

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

1.1 Product identifier

Trade name: **BIRM**

Article number: No other identifiers

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

Application of the substance / the mixture: Filter aid/ Filtration accelerator

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Clack Corporation
4462 Duraform Lane
Windsor, WI 53598 USA
Tel: 608-846-3010

Further information obtainable from:

Tel: +1 608-846-3010
Email: sds@clackcorp.com

1.4 Emergency telephone number:

ChemTel Inc.
(800)255-3924 (North America)
+1 (813)248-0585 (International)

United Kingdom
0845 46 47 (England and Wales)
08454 24 24 24 (Scotland)
0808 808 8000 (Northern Ireland)
(24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Carc. 1A H350i May cause cancer by inhalation.

STOT RE 2 H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS08

Signal word Danger

Hazard-determining components of labelling:

Quartz (SiO₂)

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manganese dioxide

· Hazard statements

H350i May cause cancer by inhalation.

H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P280 Wear protective gloves / eye protection.

P308+P313 If exposed or concerned: Get medical advice/attention.

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

· Additional information:

Restricted to professional users.

· 2.3 Other hazards There are no other hazards not otherwise classified that have been identified.**· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****· 3.2 Mixtures****· Components:**

CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂) ☠ Carc. 1A, H350i	40-60%
CAS: 1313-13-9 EINECS: 215-202-6 Index number: 025-001-00-3 Reg.nr.: 01-2119452801-43-XXXX	manganese dioxide ☠ STOT RE 2, H373 ☠ Acute Tox. 4, H302; Acute Tox. 4, H332	10-20%

· Additional information: For the wording of the listed Hazard Statements refer to section 16.**SECTION 4: First aid measures****· 4.1 Description of first aid measures****· General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation: Supply fresh air; consult doctor in case of complaints.**· After skin contact:**

Wash with soap and water.

If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
Coughing
Breathing difficulty
Gastric or intestinal disorders when ingested.
- **Hazards:**
Danger of impaired breathing.
May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
May cause cancer.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
The product is not flammable.
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective clothing.
Ensure adequate ventilation
- **6.2 Environmental precautions** No special measures required.
- **6.3 Methods and material for containment and cleaning up**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
- **6.4 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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Any unavoidable deposit of dust must be regularly removed.
Take note of emission threshold.
Use only in well ventilated areas.

Information about fire - and explosion protection:

Dust can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Protect from humidity and water.

Information about storage in one common storage facility:

Store away from water.
Store away from foodstuffs.
Store away from flammable substances.

Further information about storage conditions:

Store in dry conditions.
Do not freeze.
Store inside. Keep out of sunlight. Sunlight exposure damages bags.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

14808-60-7 Quartz (SiO₂)

WEL (Great Britain)	Long-term value: 0,1 mg/m ³ respirable dust, averaged over 8 hours
OEL (Ireland)	Long-term value: 0,1 mg/m ³

1313-13-9 manganese dioxide

IOELV (EU)	Long-term value: 0,2* 0,05** mg/m ³ as Mn; *inhalable, **respirable fraction
WEL (Great Britain)	Long-term value: 0,5 mg/m ³ as Mn
OEL (Ireland)	Long-term value: 0,2 mg/m ³ as Mn

· **DNELs:** No further relevant information available.

· **PNECs:** No further relevant information available.

8.2 Exposure controls

· **Engineering measures** Provide adequate ventilation.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.

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Wash hands before breaks and at the end of work.

- **Respiratory protection:**

Use respiratory protection when grinding or cutting material.

For spills, respiratory protection may be advisable.

Use suitable respiratory protective device when high concentrations are present.

P95 mask

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**

Neoprene gloves

Nitrile rubber, NBR

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment:**

No further relevant information available.

- **Risk management measures:** See Section 7 for additional information.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance**

Form:	Powder
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Colour:	Dark brown
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Odour:	Characteristic
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Odour threshold:	Not determined.
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pH-value:	Not applicable.
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Melting point/freezing point:	Not determined.
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Initial boiling point and boiling range:	> 999°C
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Flash point:	Not applicable.
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Flammability (solid, gas):	Not determined.
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Auto/Self-ignition temperature:	Not determined.
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Decomposition temperature:	Not determined.
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Explosive properties:	Product does not present an explosion hazard.
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- **Explosion limits**

Lower:	Not determined.
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Upper:	Not determined.
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· Oxidising properties	Contains oxidizing agent.
· Vapour pressure:	Not applicable.
· Density at 20°C:	2.25g/cm ³
· Relative density:	Not determined.
· Vapour density:	Not applicable.
· Evaporation rate:	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 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.
- **10.4 Conditions to avoid** Prevent formation of dust.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products** Toxic metal oxide smoke

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect**
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

14808-60-7 Quartz (SiO ₂)	1
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· Probable routes of exposure:

Ingestion.
Inhalation.
Eye contact.

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- Skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:**
May cause cancer by inhalation.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:**
May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability**
Inorganic product, is not eliminable from water by means of biological cleaning processes.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
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 packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---------------------------------------|---------------|
| · 14.1 UN-Number | |
| · ADR, IMDG, IATA | Not Regulated |
| · 14.2 UN proper shipping name | |
| · ADR, IMDG, IATA | Not Regulated |

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· **14.3 Transport hazard class(es)**
 · **ADR, IMDG, IATA**
 · **Class** Not Regulated

· **14.4 Packing group**
 · **ADR, IMDG, IATA** Not Regulated

· **14.5 Environmental hazards:**
 · **Marine pollutant:** No

· **14.6 Special precautions for user** Not applicable.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

SECTION 15: Regulatory information

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

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

14808-60-7	Quartz (SiO ₂)	1
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· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients are listed.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

· **Relevant phrases**

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H350i May cause cancer by inhalation.

H373 May cause damage to the central nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxique

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Carc. 1A: Carcinogenicity – Category 1Ai

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

SourcesWebsite, European Chemicals Agency (echa.europa.eu)Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

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

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

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com