

Safety Data Sheet

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

Printing date: November 17, 2016

Revision: November 17, 2016

1 Identification

- **Product identifier**
- **Trade name: KleenBore® Black Magic™**
- **Product code:** GB2 (1009440)
- **Recommended use and restriction on use**
- **Recommended use:** Acidic cleaner.
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Safariland, LLC
13386 International Parkway
Jacksonville, FL 32218
Customer Care (800) 347-1200
- **Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585



2 Hazard(s) identification

- **Classification of the substance or mixture**
- Met. Corr.1 H290 May be corrosive to metals.
- Acute Tox. 3 H301 Toxic if swallowed.
- Acute Tox. 3 H331 Toxic if inhaled.
- Skin Corr. 1C H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.
- STOT SE 3 H335 May cause respiratory irritation.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms:**



GHS05 GHS06 GHS07 GHS08

- **Signal word:** Danger

- **Hazard statements:**

H290 May be corrosive to metals.
 H301+H331 Toxic if swallowed or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.

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· **Precautionary statements:**

- P260 Do not breathe mist/vapors/spray.
 P264 Wash thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P234 Keep only in original container.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
 P314 Get medical advice/attention if you feel unwell.
 P390 Absorb spillage to prevent material damage.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**

| | | |
|------------|---|----------------|
| HEALTH | 3 | Health = 3 |
| FIRE | 0 | Fire = 0 |
| REACTIVITY | 0 | Reactivity = 0 |

* - Indicates a long term health hazard from repeated or prolonged exposures.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

| | | |
|-----------|---|--------|
| 7783-00-8 | selenious acid Acute Tox. 3, H301; Acute Tox. 3, H331 STOT RE 2, H373 | 10-20% |
| 7758-98-7 | copper sulphate Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 | 10-20% |
| 7647-01-0 | hydrochloric acid Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 STOT SE 3, H335 | 15-20% |

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· **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

Involve doctor immediately. Symptoms, including pain, following any exposure may be delayed by as much as 24 hours.

Take affected persons out into the fresh air.

· **After inhalation:**

Supply fresh air.

Seek immediate medical advice.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After skin contact:**

Immediately rinse with water.

Seek immediate medical advice.

Seek immediate medical help for blistering or open wounds.

· **After eye contact:**

Protect unharmed eye.

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

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

Strong caustic effect on skin and mucous membranes.

Coughing

Breathing difficulty

Nausea

Cramp

Acidosis

Cyanosis

Disorientation

· **Danger:**

Danger of gastric perforation.

Causes serious eye damage.

Danger of disturbed cardiac rhythm.

Danger of impaired breathing.

Danger of convulsion.

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

Contains selenium compounds. Consult literature for specific antidotes.

May produce a hemotoxic effect.

Medical supervision for at least 48 hours.

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Monitor circulation, possible shock treatment.

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5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **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**
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
- **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.
- **Methods and material for containment and cleaning up**
Use limestone to neutralize and absorb spill.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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:**
Prevent formation of aerosols.
Use only in well ventilated areas.
Avoid splashes or spray in enclosed areas.
- **Information about protection against explosions and fires:**
Keep respiratory protective device available.

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· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Store only in the original receptacle.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

Do not store together with alkalis (caustic solutions).

Store away from metals.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Keep containers tightly sealed.

· **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

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

7647-01-0 hydrochloric acid

| | |
|---------------|---|
| PEL (USA) | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| REL (USA) | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| TLV (USA) | Ceiling limit value: 2.98 mg/m ³ , 2 ppm |
| EL (Canada) | Ceiling limit value: 2 ppm |
| EV (Canada) | Ceiling limit value: 2 ppm |
| LMPE (Mexico) | Ceiling limit value: 2 ppm A4 |

7783-00-8 selenious acid

| | |
|---------------|---|
| PEL (USA) | Long-term value: 0.2 mg/m ³ as Se |
| REL (USA) | Long-term value: 0.2 mg/m ³ as Se |
| TLV (USA) | Long-term value: 0.2 mg/m ³ as Se |
| EL (Canada) | Long-term value: 0.1 mg/m ³ as Se |
| LMPE (Mexico) | Long-term value: 0.2 mg/m ³ como Se |

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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 inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Engineering controls:** No relevant information available.

- **Breathing equipment:**

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

Use suitable respiratory protective device when high concentrations are present.

- **Protection of hands:**



Protective gloves

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Contact lenses should not be worn.



Safety glasses

- **Body protection:** Acid resistant protective clothing

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

No relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No relevant information available.

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9 Physical and chemical properties

· Information on basic physical and chemical properties

· Appearance:

Form: Liquid

Color: Blue

· Odor: Acrid

· Odor threshold: Not determined.

· pH-value at 20 °C (68 °F): 1.5 - 2.0

· Melting point/Melting range: Not determined.

· Boiling point/Boiling range: 102 °C (216 °F) (Estimate)

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Auto-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits

Lower: Not determined.

Upper: Not determined.

· Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

· Density: Not determined.

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

Water: Soluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity

Dynamic: Not determined.

Kinematic: Not determined.

· Other information: No relevant information available.

10 Stability and reactivity

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

· **Chemical stability:**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· **Possibility of hazardous reactions**

Reacts with alkali (lyes).

Toxic fumes may be released if heated above the decomposition point.

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- Corrosive action on metals.
- Reacts with strong oxidizing agents.
- **Conditions to avoid** No relevant information available.
- **Incompatible materials** No relevant information available.
- **Hazardous decomposition products**
 - Sulfur oxides (SO_x)
 - Toxic metal oxide smoke
 - Chlorine
 - Hydrogen chloride (HCl)
 - Selenium oxides.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

| | | |
|------------|---------|-----------------|
| Oral | LD50 | 240 - 320 mg/kg |
| Inhalative | LC50/4h | 9.5 - 13 mg/l |

7783-00-8 selenious acid

| | | |
|------|------|---------------------------------------|
| Oral | LD50 | 50 - 70 mg/kg (rat) (Estimated Range) |
|------|------|---------------------------------------|

7758-98-7 copper sulphate

| | | |
|------|------|-----------------|
| Oral | LD50 | 300 mg/kg (rat) |
|------|------|-----------------|

7647-01-0 hydrochloric acid

| | | |
|------|------|--------------------|
| Oral | LD50 | 900 mg/kg (rabbit) |
|------|------|--------------------|

- **Primary irritant effect:**
- **On the skin:** Caustic effect on skin and mucous membranes.
- **On the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.

· IARC (International Agency for Research on Cancer):

| | | |
|-----------|-------------------|---|
| 7647-01-0 | hydrochloric acid | 3 |
|-----------|-------------------|---|

· NTP (National Toxicology Program):

| | | |
|-----------|----------------|---|
| 7783-00-8 | selenious acid | R |
|-----------|----------------|---|

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

None of the ingredients are listed.

· Probable route(s) of exposure:

- Skin contact.
- Eye contact.
- Ingestion.
- Inhalation.

· Acute effects (acute toxicity, irritation and corrosivity):

- Toxic if swallowed or if inhaled.
- Causes severe skin burns and eye damage.

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May cause respiratory irritation.

· **Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity** Toxic for aquatic organisms

· **Persistence and degradability** No relevant information available.

· **Bioaccumulative potential:** No relevant information available.

· **Mobility in soil:** No relevant information available.

· **Ecotoxicological effects:**

· **Remark:**

Very toxic for fish

Inhibition of the development of the biomass

Toxic for algae

· **Additional ecological information**

· **General notes:**

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.

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.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **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.

Dilute concentrate with water and neutralize afterwards with suitable material (lime or chalk). The formed salts are inert and pose little hazard.

· **Uncleaned packagings**

· **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

| | |
|---|--|
| <ul style="list-style-type: none"> · UN-Number · DOT, ADR, IMDG, IATA | <p>UN2922</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR · IMDG · IATA | <p>Corrosive liquids, toxic, n.o.s. (Hydrochloric acid, selenious acid)</p> <p>2922 CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROCHLORIC ACID, selenious acid), ENVIRONMENTALLY HAZARDOUS</p> <p>CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROCHLORIC ACID, selenious acid), MARINE POLLUTANT</p> <p>CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROCHLORIC ACID, selenious acid)</p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT | <div style="display: flex; align-items: center;">    </div> <p>8 Corrosive substances 8+6.1</p> |
| <ul style="list-style-type: none"> · ADR | <div style="display: flex; align-items: center;">    </div> <p>8 (CT1) Corrosive substances 8+6.1</p> |
| <ul style="list-style-type: none"> · IMDG | <div style="display: flex; align-items: center;">    </div> <p>8 Corrosive substances 8+6.1</p> |
| <ul style="list-style-type: none"> · IATA | <div style="display: flex; align-items: center;">   </div> <p>8 Corrosive substances 8+6.1</p> |

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| | |
|--|--|
| · Packing group | II |
| · DOT, ADR, IMDG, IATA | II |
| · Environmental hazards | Product contains environmentally hazardous substances: selenious acid, copper sulphate |
| · Marine pollutant: | Yes Symbol (fish and tree) |
| · Special precautions for user | Warning: Corrosive substances |
| · Danger code (Kemler): | 86 |
| · EMS Number: | F-A,S-B |
| · Segregation groups | Acids |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

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 355 (extremely hazardous substances):**

7783-00-8 | selenious acid

7647-01-0 | hydrochloric acid

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

7783-00-8 | selenious acid

7647-01-0 | hydrochloric acid

7758-98-7 | copper sulphate

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **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.

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· **Carcinogenic categories**

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

| | | |
|-----------|----------------|---|
| 7783-00-8 | selenious acid | D |
|-----------|----------------|---|

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

| | | |
|-----------|----------------|---|
| 7783-00-8 | selenious acid | 3 |
|-----------|----------------|---|

| | | |
|-----------|-------------------|---|
| 7647-01-0 | hydrochloric acid | 3 |
|-----------|-------------------|---|

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

None of the ingredients are listed.

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

All ingredients are listed.

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

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** 11/17/2016 / -

· **Abbreviations and acronyms:**

ADR: 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

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

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

LDLo: Lowest Lethal Dose Observed

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

· **Sources**

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