

# MATERIAL SAFETY DATA SHEET

Page 1 of 5

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Kleen-Bore Black Magic

**PRODUCT NUMBER(S):** 1009440 (GB2)

**DATE:** November 04, 2011

**TRADE NAME:** Kleen-Bore Black Magic RT

**GENERAL USE:** Acidic Clenaing Solution

**CHEMICAL FAMILY:** Inorganic Acid Solution

**PRODUCT DESCRIPTION:**

Clear Blue non-viscous liquid - highly acidic.



**MANUFACTURED FOR:**

**Safariland LLC**

**DATE PREPARED:** November 4, 2011

**SUPERSEDES:** July 9, 2008

**ADDRESS (NUMBER, STREET, P.O. BOX)**

**13386 International Parkway**

**TELEPHONE NUMBER FOR INFORMATION / Customer Service**

**800-347-1200**

**(CITY, STATE AND ZIP CODE)**

**Jacksonville, FL 32218**

**COUNTRY**

**USA**

**CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER**



**1-800-255-3924**

**813-248-0585**

North America Toll Free

International

## SECTION 2 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Highly toxic and corrosive liquid. Both liquid and vapors can cause damage to tissues. Avoid strong bases and organic

### POTENTIAL HEALTH EFFECTS

#### INHALATION:

Inhalation of vapors may cause severe respiratory irritation, headache, and nausea. Chronic exposure may cause respiratory damage.

#### SKIN:

Product is corrosive, and may damage tissues. Use proper gloves and clothing while working with product.

#### EYES:

Liquid or vapor may cause moderate to severe irritation. Use safety glasses; use of a face shield is advisable.

#### INGESTION:

Product is highly toxic; ingestion can lead to severe injury, including death. Burning of mucous membranes, nausea, cramps, diarrhea, or vomiting may occur.

#### CARCINOGENICITY:

NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

CALIFORNIA, Prop.65?

No

## SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
<b>Selenious Acid</b>	<b>10-20</b>	<b>7783-00-8</b>	<b>231-974-7</b>	<b>T, Xn</b>	<b>R23/25, 33, 50/53</b>
<b>Hydrochloric Acid</b>	<b>5-15</b>	<b>7647-01-0</b>	<b>231-595-7</b>	<b>C, Xn</b>	<b>R34, 36/37/38</b>
<b>Copper Sulfate</b>	<b>5-15</b>	<b>7758-99-8</b>	<b>231-847-6</b>	<b>N, Xn</b>	<b>R22, 36/38, 50/53</b>

Notes: Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.

## SECTION 4 - FIRST AID MEASURES

#### INHALATION:

Place victim in well-ventilated area. If victim is not breathing, perform artificial respiration. Seek immediate medical attention.

#### EYES:

Material can cause severe eye irritation. Flush eyes with a large quantity of water for a minimum of 15 minutes, then seek medical attention. Do not medicate with "over-the-counter" eye products.

#### SKIN:

Product is corrosive and will damage skin and tissues.. Use of appropriate gloves and thorough hand-washing with hand cleanser is required. Remove contaminated clothing and rinse thoroughly. If skin is damaged or severely irritated, seek medical help. Safety Showers are highly recommended for use of this product.

#### INGESTION:

Product is highly toxic; ingestion can lead to severe injury, including death. Induce vomiting, then seek immediate medical help.

# MATERIAL SAFETY DATA SHEET

Page 2 of 5

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## SECTION 5 - FIRE FIGHTING MEASURES

### GENERAL HAZARDS:

Material is non-flammable, but heated material can generate corrosive vapors and toxic fumes.

### EXTINGUISHING MEDIA:

N/A - product is non-flammable.

### FIRE FIGHTING PROCEDURES:

Water may be used to dilute and cool product to reduce the risk of toxic and corrosive vapors. Self-contained breathing apparatus is required.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic and corrosive fumes and/or vapors may form. Self-contained breathing apparatus is required. Decontamination of fire-fighting gear may be needed.

### HAZARDOUS COMBUSTION PRODUCTS:

May produce fumes containing selenium compounds, which are highly toxic. Self-contained breathing apparatus is required for fire-fighting purposes.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

AVOID BREATHING VAPORS. Sequester leak or spill. Mop up and store in proper container for disposal. Do not discharge into waterways or sewer systems.

## SECTION 7 - HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid contact with eyes and skin. Do not inhale vapors/fumes. Do not take internally.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Selenious Acid	0.02	NE	NE	NE	0.02	NE	NE	NE
Hydrochloric Acid	NE	NE	NE	NE	5	7.5	5	7.5
Copper Sulfate	NE	NE	NE	NE	NE	NE	NE	NE

### PERSONAL PROTECTION

#### RESPIRATORY PROTECTION:

Use approved NIOSH respirator if TLV levels are exceeded.

#### PROTECTIVE GLOVES:

Rubber gloves are suggested.

#### EYE PROTECTION:

Chemical goggles and/or face shields are required to prevent potential eye contact, irritation or injury.

#### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear appropriate protective clothing and boots as required to prevent skin contact.

#### WORK / HYGIENIC PRACTICES:

Eye wash and safety showers in the work place are recommended.





# MATERIAL SAFETY DATA SHEET

Page 3 of 5

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<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>			
APPEARANCE AND ODOR Clear Blue non-viscous liquid - highly acidic		VAPOR PRESSURE same as water	
pH 1.5-2.0		SPECIFIC GRAVITY (WATER = 1) 1.2-1.3	
BOILING POINT / BOILING RANGE N/D		SOLUBILITY IN WATER 100%	
FLASH POINT None		VISCOSITY N/D	
FLAMMABLE LIMITS LEL: N/D UEL: N/D		VAPOR DENSITY (AIR = 1) Same as Water	
AUTOIGNITION TEMPERATURE Unknown		EVAPORATION RATE (WATER = 1) N/D	
<b>SECTION 10 - STABILITY AND REACTIVITY</b>			
STABILITY Stable under normal conditions.		CONDITIONS TO AVOID: Extreme Heat (above 120°F)	
INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing Agents			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Selenium Comounds, Copper Compounds, Chlorinated Compounds			
HAZARDOUS POLYMERIZATION: Will Not Occur		CONDITIONS TO AVOID: None Related to Polymerization	
<b>SECTION 11 - TOXICOLOGICAL INFORMATION</b>			
Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Selenious Acid	7783-00-8	11 mg/kg (INTRAVENOUS, MOUSE)	NE
	231-974-7		
Hydrochloric Acid	7647-01-0	900 mg/kg (ORAL, RAT)	NE
	231-595-7		
Copper Sulfate	7758-99-8	300 mg/kg (ORAL, RAT)	NE
	231-847-6		
<b>SECTION 12 - ECOLOGICAL INFORMATION</b>			
Toxic to aquatic organisms.			
<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>			
WASTE DISPOSAL METHOD: Do not dispose into waterways or sewers. Waste may be considered hazardous; the user has the responsibility of compliance with federal, state, and local regulations concerning waste disposal. Obey federal, state, and local laws regarding storage of flammable wastes.			


# MATERIAL SAFETY DATA SHEET

Page 4 of 5

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<b>SECTION 14 - TRANSPORT INFORMATION</b>														
<b>PROPER SHIPPING NAME:</b> Toxic Liquid, Corrosive, Inorganic, n.o.s. (Selenious Acid, Hydrochloric Acid)														
<b>DOT HAZARD CLASS / Pack Group:</b> 6.1 (8), PG II  <b>REFERENCE:</b> 49 CFR  <b>UN / NA IDENTIFICATION NUMBER:</b> UN 3289 <b>LABEL:</b> Poison (6.1), Corrosive (8)  <b>HAZARD SYMBOLS:</b> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>	<b>IATA HAZARD CLASS / Pack Group:</b> 6.1 (8), PG II  <b>IMDG HAZARD CLASS:</b> 6.1 (8), PG II  <b>RID/ADR Dangerous Goods Code:</b> C6, T4  <b>TDG Class / Pack Group:</b> 6.1 (8), PG II  <b>Hazard Identification Number (HIN):</b> 68													
Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.														
<b>SECTION 15 - REGULATORY INFORMATION</b>														
<b>TSCA (USA - Toxic Substance Control Act):</b> Listed. <b>SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):</b> <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 50%;">Acute Health:</td> <td style="width: 25%;">Yes</td> <td style="width: 25%;">Chronic Health:</td> <td style="width: 25%;">Yes</td> </tr> <tr> <td>Fire:</td> <td>No</td> <td>Sudden Release of Pressure:</td> <td>No</td> </tr> <tr> <td>Reactive:</td> <td>Yes</td> <td></td> <td></td> </tr> </table>			Acute Health:	Yes	Chronic Health:	Yes	Fire:	No	Sudden Release of Pressure:	No	Reactive:	Yes		
Acute Health:	Yes	Chronic Health:	Yes											
Fire:	No	Sudden Release of Pressure:	No											
Reactive:	Yes													
<b>313 REPORTABLE INGREDIENTS:</b> Selenious Acid, Hydrochloric Acid, Copper Sulfate <b>CERCLA (USA - Comprehensive Response Compensation and Liability Act):</b> 50 lbs for product. <b>California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:</b> No <b>CCPR (Canadian Controlled Products Regulations):</b> WHMIS Class D1B - Toxic, Class E - Corrosive <b>CIDL (Canadian Ingredient Disclosure List):</b> Yes - Selenious Acid, Hydrochloric Acid <b>CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):</b> Listed on DSL or NDSL. <b>EINECS (European Inventory of Existing Commercial Chemical Substances):</b> Referenced <b>WGK Water Quality Index:</b> 2														
<b>RISK PHRASES:</b>	<b>SYMBOL(S) REQUIRED FOR EU LABEL</b>	<b>SAFETY PHRASES:</b>												
R23/25 Toxic by inhalation and if swallowed. R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed R34: Causes burns R36/37/38: Irritating to eyes, respiratory system and skin R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	  	S1/2: Keep locked up and out of the reach of children S18: Handle and open container with care. S24/25: Avoid contact with skin and eyes S27/28: After contact with skin, take off immediately all contaminated clothing and wash immediately with plenty of water. S29/35: Do not empty into drains, dispose of this container and it's material in a safe way S36/37/39: Wear suitable protective clothing, gloves and eye/face protection S46: If swallowed, seek medical advice immediately and show this container or label. S61: Avoid release to the environment. Refer to special instructions safety data sheet												

# MATERIAL SAFETY DATA SHEET

Page 5 of 5

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<b>SECTION 16 - OTHER INFORMATION</b>			
<b>Legend</b> N/A=Not applicable N/D=Not Determined			
HMIS HAZARD RATINGS	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	<b>3</b> <b>0</b> <b>2</b> <b>B</b>	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
<b>REVISION SUMMARY:</b> Revised 11/4/2011. LB			
<b>MSDS Prepared by:</b> 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			
The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.			