

# SAFETY DATA SHEET

## BRILLIANT

### SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: BRILLIANT  
 PRODUCT USE: Mechanical Warewash Detergent  
 VENDOR NAME AND ADDRESS: Alpine Specialty Chemicals Ltd.  
 9 City View Drive, Etobicoke, Ontario M9W 5A5  
 24 HOUR EMERGENCY NO. 613-996-6666 ( CANUTEC )

### SECTION 2 – HAZARDS IDENTIFICATION

#### CLASSIFICATION

- SKIN CORROSION/IRRITATION- CATEGORY 1A; EYE DAMAGE/IRRITATION –CATEGORY 1

#### LABEL ELEMENTS



- SIGNAL WORD: DANGER
- HAZARD STATEMENT(S): CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
- PRECAUTIONARY STATEMENTS: Wash skin thoroughly after handling. Wear chemical safety glasses and nitrile gloves. Do not mix with acids. Dispose of contents/ containers in accordance with local regulations.
- RESPONSE: - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Wash with plenty of water. Get medical attention. Take off contaminated clothes and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Immediately call a poison center or doctor. Rinse mouth.

### SECTION 3 – COMPOSITION / INFORMATION INGREDIENTS

CHEMICAL NAME	%	CAS.NO
Potassium Hydroxide	13	1310-58-3
Sodium Hypochlorite	<1	7681-52-9

### SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove source of exposure or move to fresh air. Call a poison centre or doctor if you feel unwell.

**Skin Contact:** Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention or advise. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention or advice.

**Ingestion:** Immediately call a Poison Centre or doctor. Do not induce vomiting.

**Note to physician:** Treat symptomatically, no specific antidote. See toxicological information (section 11)

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### SECTION 5 – FIRE FIGHTING MEASURES

#### Extinguishing Media:

**Suitable Extinguishing Media:** Use water spray, fog or foam.

**Unsuitable Extinguishing Media:** None known

**Specific hazards arising from the product:** No specific fire or explosion hazard.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: halogenated compounds, carbon oxides.

**Advice for fire-fighters:** Not available.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

Wear suitable protective clothing. Wear eye/face protection.

**Environmental precautions:** Do not allow to enter drains, sewers or watercourses. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

**Methods and materials for containment and cleaning up:** Use a water rinse for final clean-up.

**Reference to other sections** See also Section 8.

### SECTION 7 – HANDLING AND STORAGE

**Precautions for safe handling:** Ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

**Storage Procedures:** Keep containers closed when not in use. Store between the following temperatures: 15 to 40°C.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	ACGIH TLV		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8 hour TWA	Short term TWA ©
Potassium Hydroxide	2 mg/m <sup>3</sup>		2mg/ m <sup>3</sup>		2mg/ m <sup>3</sup>	
Sodium Hypochlorite	2 mg/m <sup>3</sup>		2 mg/m <sup>3</sup>		2 mg/m <sup>3</sup>	

ACGIH= American Conference of Governmental Industrial Hygienists. TLV = Threshold Limit Value. TWA = Time-weighted Average. STEL = Short-term Exposure Limit OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA = AIHA Guideline Foundation. WEEL = Workplace Environmental Exposure Limit.

**Appropriate Engineering Control:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual Protection Measure:

**Eye/Face Protection:** Do not get into eyes. Wear chemical safety goggles.

**Skin Protection:** Prevent all skin contact, wear nitrile gloves.

**Respiratory protection:** Not required

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Liquid, slightly yellow colour.

**Odour:** Slight chlorine odour

# SAFETY DATA SHEET

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<b>Odor Threshold:</b>	Not available
<b>Initial boiling point and boiling range</b>	Not available
<b>pH :</b>	14 ( 100 % )
<b>Melting Point:</b>	Not available
<b>Thermal decomposition:</b>	Not available
<b>Flash Point:</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Flammability:</b>	Not available
<b>Explosive Limit:</b>	Not available
<b>Upper explosion limit:</b>	Not available
<b>Lower explosion limit:</b>	Not available
<b>Relative Density:</b>	Approx. = 1.20 ( Water = 1 )
<b>Viscosity:</b>	Not available
<b>VOC:</b>	Not available
<b>Solubility in water:</b>	Soluble
<b>Solubility in other solvents:</b>	Not available
<b>Partition coefficient: octanol/water</b>	Not available
<b>Molecular weight:</b>	Not available

<i>Oxidizing properties:</i>	<b>Not available</b> <b>SECTION 10 – STABILITY AND REACTIVITY</b>
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STABILITY:	Stable
INCOMPATIBILITY:	Acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur.
CONDITIONS TO AVOID:	Contact with acids will generate heat.

<b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>
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Chemical Name	LC50	LD50	LD50 ( dermal )
Potassium Hydroxide	80 mg/l ( daphnia )	273 mg/kg ( rat )	ATE > 2000 mg/kg
Sodium Hypochlorite	Not available	5230 kg ( rat )	>10000 mg/kg ( Rabbit )

**Routes of exposure:** Skin contact, Eye contact, Ingestion.

# SAFETY DATA SHEET

## BRILLIANT

**Eye contact:** Material will cause chemical burns. May cause permanent damage if eye is not immediately irrigated.

**Skin contact.** Material will cause chemical burns.

**Inhalation:** Material will cause coughing and respiratory tract irritation.

### Acute toxicity:

**Eye contact:** Causes serious eye damage.

**Skin contact:** Causes severe skin burns

**Inhalation:** Causes respiratory irritation.

**Ingestion:** Causes burns to mouth, throat and stomach.

**Reproductive toxicity:** No evidence of reproductive toxicity or developmental toxicity.

**STOT - single exposure** irritating to respiratory system.

**STOT - Not classified.**

**Aspiration hazard:** Not classified.

### **SECTION 12 – ECOLOGICAL CONSIDERATION**

**Eco toxicity :** This material is harmful to aquatic life.

**Bio accumulative potential Inorganic:** The substance has no potential for bioaccumulation.

**Mobility in soil:** Not applicable.

**Other adverse effects:** The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

### **SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste Disposal:** In accordance with federal, provincial or local government requirements.

### **SECTION 14 – TRANSPORT INFORMATION**

**TDG Classification:** UN 3266 Corrosive Liquid, Basic, Inorganic N.O.S. (Potassium Hydroxide)  
Class 8 Packing Group II

### **SECTION 15 – REGULATORY INFORMATION**

Refer to section 2.

### **SECTION 16 – OTHER INFORMATION**

EFFECTIVE DATE:

February 10, 2016: **Revision 1**

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