



SAFETY DATA SHEET

Issuing Date No data available

Revision Date 1-June 2015

Revision Number 0

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

GHS product identifier

Product Name BRILLIANCE

Other means of identification

Product Code(s) 107425

Synonyms N/A

Recommended use of the chemical and restrictions on use

Recommended Use Warewashing

Uses advised against No Information Available

Supplier's details

Supplier Address

Birsch Industries
476 Viking Drive
Virginia Beach, VA. 23452
TEL: 757-622-0355

Emergency telephone number

Emergency Telephone Number CHEM-TEL, INC.
24 Hour Emergency Contact 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

ACUTE TOXICITY: ORAL – Category 4
SKIN CORROSION/IRRITATION – Category 1
SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1
SPECIFIC TARGET ORGAN TOXICITY: SINGLE EXPOSURE – Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word	DANGER		
Hazard Statements	<ul style="list-style-type: none"> • Harmful if swallowed • Causes skin burns and eye damage • Causes serious eye damage • May cause respiratory irritation 		
Appearance	Clear	Physical State	Liquid
		Odor	Bland Scent



Symbol:

Precautionary Statements

Prevention

Use only outdoors on in a well-ventilated area. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing. Wear eye/face protection.

Response

Collect spillage.

IF SWALLOWED: Call a poison center/doctor if you feel unwell. Rinse Mouth. Do NOT induce vomiting.

IF ON SKIN (or Hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

Specific treatment (see this label).

Take off immediately all contaminated clothing and wash it before reuse.

Storage

Store in a well-ventilated area. Keep cool. Store locked up.

Disposal

Dispose of contents and container in accordance with applicable local, regional, national and/or international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Chemical Name	CAS-No	Weight %	Notes
Sodium Silicate	1344-09-8	5 - 10	*
Sodium Hydroxide	1310-73-2	5 - 10	*
Sodium Xylene Sulfonate	1300-72-7	< 5	*
Sodium Edetate Tetrasodium Salt	64-02-8	< 5	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact	Severe eye irritant. Liquid and mist may damage eyes, causing corneal damage. Flush with large quantities of water, holding eyelids open. Seek medical attention if irritation persists.
Skin Contact	Severe skin irritant. May cause reddening, swelling and possible skin damage. Flush with water. Seek medical attention if irritation persists.
Inhalation	Vapors and mist may be irritating to mucous membranes in the throat and lungs. Get to fresh air. Seek medical attention if irritation persists.

Ingestion	Irritating and corrosive to the mouth and throat. May cause headache, nausea, abdominal pain, vomiting and diarrhea. Do not induce vomiting. Drink large quantities of water. Seek medical attention immediately.
<u>Indication of immediate medical attention and special treatment needed, if necessary</u>	
Most Important Symptoms	May cause reddening, swelling and possible skin damage. Severe eye irritant. Liquid and mist may damage eyes, causing corneal damage. Vapors and mist may be irritating to mucous membranes in the throat and lungs. Irritating and corrosive to the mouth and throat. May cause headache, nausea, abdominal pain, vomiting and diarrhea.
General Information	Take off immediately all contaminated clothing. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible.) Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, Carbon dioxide (CO₂), Dry Chemicals
Do NOT use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical

Water and regular foam may cause frothing.

Special Protective Equipment and Precautions for Firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-Fighting Equipment/Instructions

In case of fire and/or explosion, do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific Methods

Use standard firefighting procedures and consider the hazards of other involved materials.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources. Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
Environmental Precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto ground.
Methods for Cleaning Up	Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority to sewer systems without previously notifying the local sewage treatment plant authority.

7. HANDLING AND STORAGE

Precautions for safe handling

Keep out of reach of children. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only. Warning: Corrosive.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits	No data available
Biological Limit Values	No biological exposure limits noted.
Appropriate Engineering Controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
<u>Individual protection measures, such as personal protective equipment</u>	
Eye & Face Protection	Wear eye/face protection. Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.
Hand & Skin Protection	Wear appropriate chemical resistant gloves and clothing.
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene Measures	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Appearance	Clear
Odor	Bland Scent	Odor Threshold	No information available
<u>Property</u>		<u>Values</u>	
pH		13.0 – 14.0	
Melting Point/Range		No data available	
Boiling Point/Boiling Range		212°F (100°C)	
Flash Point		No data available	
Evaporation rate		No data available	
Flammability (solid, gas)		No data available	
Flammability Limits in Air			
upper flammability limit		No data available	
lower flammability limit		No data available	
Vapor Pressure		20 mm Hg @ 68°F	
Vapor Density		No data available	
Relative Density		No data available	
Specific Gravity		1.1	
Water Solubility		No data available	
Solubility in other solvents		No data available	
Partition coefficient: n-octanol/water		No data available	
Autoignition Temperature		No data available	

Decomposition Temperature	No data available
Viscosity	No data available
Flammable Properties	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

10. STABILITY AND REACTIVITY

Stability

The product is stable

Possibility of hazardous reactions

No dangerous reaction known under normal conditions.

Conditions to avoid

Do not mix with other chemicals.

Incompatible materials

Do not mix with other chemicals.

Hazardous decomposition products

Alkaline vapors in a fire.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Ingestion	Harmful if swallowed.
Inhalation	May cause irritation if inhaled.
Skin Contact	Severe skin irritant.
Eye Contact	Severe eye irritant.

Symptoms	May cause reddening, swelling and possible skin damage. Severe eye irritant. Liquid and mist may damage eyes, causing corneal damage. Vapors and mist may be irritating to mucous membranes in the throat and lungs. Irritating and corrosive to the mouth and throat. May cause headache, nausea, abdominal pain, vomiting and diarrhea.
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Information on Toxicological Effects

Acute Toxicity	Harmful if swallowed.
Skin Corrosion/Irritation	Causes severe skin irritation.
Serious Eye Damage/Eye Irritation	Causes severe eye irritation.
Respiratory Sensitization	Not available
Skin Sensitization	This product is not expected to cause skin sensitization.
Germ Cell Mutagenicity	No data available
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity	This product is not expected to cause reproductive or developmental effects.
Specific Target Organ Toxicity Single Exposure	May cause damage to organs.
Specific Target Organ Toxicity Repeated Exposure	Not applicable
Aspiration Hazard	Not likely, due to the form of the product.
Chronic Effects	Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ectotoxicity	Very toxic to aquatic life with long lasting effects.
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available

Mobility In Soil	No data available
Other Adverse Effects	No other adverse environmental effects are expected from this product.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions	Container Disposal – Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying. For containers 5 gallons or less – Triple rinse as follows: Fill container ¼ full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Deain for 10 seconds after the flow begins to drip. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill. For containers greater than 5 gallons – Triple Rinse as follows: Fill container ¼ full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT

ID Number: UN1824
Shipping Name: Sodium hydroxide solution
Hazard Class: 8
Packing Group: III

15. REGULATORY INFORMATION

U.S. Federal Regulations

This product is a U.S. EPA registered pesticide.
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories: Acute Health
Chronic Health
SARA 302 Extremely Hazardous Substance: No
SARA 311/312 Hazardous Chemical: No
SARA 313: 2-Butoxyethanol (111-76-2) [RQ(lbs): None]
Sodium Hydroxide (1310-73-2) [RQ(lbs): 1000]

Clean Air Act (CAA)

Section 112 Hazardous Air Pollutants List: Not Regulated
Section 112r Accidental Release Prevention: Not Regulated

CERCLA (40 CFR 302.4)

Sodium Hydroxide (1310-73-2) [RQ(lbs): 1000]

US OSHA Specifically Regulated Substance (29 CFR 1910.1001-1050)

Not Listed

Safe Water Drinking Act (SDWA)

Not Regulated

California Proposition 65

Not Listed

U.S. State Right-To-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhone Island
Sodium Hydroxide (1310-73-2)	X	X	X	X

16. OTHER INFORMATION**NFPA** **Health 3** **Flammability 0** **Instability 0**

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Revision Note N/A

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet