SAFETY DATA SHEET

Issuing Date No data available **Revision Date** 19-March 2015 **Revision Number** 0

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

GHS product identifier

Product Name **BRIGHT BOOSTER**

Other means of identification

Product Code(s) **210050**

Synonyms N/A

Recommended use of the chemical and restrictions on use

Recommended Use Laundry Booster

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

CORROSIVE TO METALS – Category 1
SKIN CORROSION/IRRITATION – Category 1B
EYE DAMAGE/IRRITATION – Category 1
SINGLE TARGET ORGAN TOXICITY (SINGLE EXPOSURE) – Category 1
HAZARDOUS TO AQUATIC ENVIRONMENT (ACUTE HAZARD) – Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word **DANGER**

Hazard Statements
• May be corrosive to metals
• Causes serious eye damage
• Causes severe skin burns and eye damage
• Causes damage to organs (Respiratory System, Gastrointestinal System)

Appearance Clear-White **Physical State** Liquid **Odor** Characteristic

Symbol:

Precautionary Statements

Prevention
Do not breathe mist, vapors or spray. Wear protective gloves, protective clothing, eye and face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Keep only in original container.

Inhalation
IF INHALED, Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Ingestion
IF SWALLOWED, rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Skin
IF ON SKIN, remove immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Eyes
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 or doctor/physician.

Other Response
IF EXPOSED, call a POISON CENTER or doctor/physician. Specific treatment (See First Aid information in Section 4). Absorb spillage to prevent material damage.

Storage
Store locked up. Store in corrosive resistant and NON-ALUMINUM container with a resistant inner liner. (NOTE: flammable hydrogen gas may be generated if aluminum container and/or aluminum fittings are used.)

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 Hydroxide	1310-73-2	< 50	*
Sodium Chloride	7647-14-5	<35	*

** 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
Immediately flush contaminated eyes with a directed stream of water for as long as possible. Remove contact lenses if present and easy to do. Continue rinsing. GET MEDICAL ATTENTION IMMEDIATELY. Washing eyes within several seconds is essential to achieve maximum effectiveness.

Skin Contact
Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry and shoes immediately. Wash contaminated areas with large amounts of water. GET MEDICAL ATTENTION IMMEDIATELY. Thoroughly clean and dry contaminated clothing before reuse. Discard contaminated leather goods.

Inhalation
If inhalation of mists, vapors or spray occurs and advese effects result, remove to uncontaminated area. Evaluate ABC's (Airway constriction, Breathing, Circulation of blood) and treat symptomatically. GET MEDICAL ATTENTION IMMEDIATELY. There is no specific antidote. Treat symptomatically.

Ingestion
If swallowed, do NOT induce vomiting. For definite or probable ingestion, do not administer oral fluids. If vomiting occurs spontaneously, keep airway clear. Monitor airway. Volume resuscitation (IV fluids) and circulatory support (CPR) may be required. Never give anything by mouth to an unconscious or convulsive person. GET MEDICAL ATTENTION IMMEDIATELY.

Indication of immediate medical attention and special treatment needed, if necessary

Most Important Symptoms
Corrosive. This material may be corrosive to any tissue it comes in contact with. It can cause serious burns and extensive tissue destruction.

Medical Conditions Aggravated By Exposure
May aggravate preexisting conditions such as: eye disorders that decrease tear production or have reduced integrity of the eye, skin disorders that compromise the integrity of the skin, and respiratory conditions including asthma and other breathing disorders.

Protection of First-Aiders
Protect yourself by avoiding contact with this material. Avoid contact with skin and eyes. Do not breathe vapors, sprays or mists. Do not ingest. Use personal protective equipment.

Notes to Physician
Medical observation and assessment is recommended for all ingestions, all eye exposures and symptomatic inhalation and dermal exposures. For symptomatic ingestion, do not administer oral fluids and consider investigation by endoscopy, x-ray or CT scan. Esophageal perforation, airway compromise, hypotension and shock are possible. For prolonged exposures and significant exposures, consider delayed injury to exposed tissues. There is no antidote. Treatment is supportive care. Follow normal parameters for airway, breathing and circulation. Surgical intervention may be required.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising from the Chemical
No determined

Hazardous Thermal Decomposition Products
Non-combustible, substance itself does not burn, but may decompose upon heating to produce corrosive and/or toxic fumes. May react with chemically reactive metals such as aluminum, zinc, magnesium, copper, etc. to release hydrogen gas which can form explosive mixtures in air.

Hazardous Combustion Products
Sodium hydroxide fums can be generated by thermal decomposition at elevated temeratures.

Specific Fire-Fighting Methods
No information available

Protective Equipment and Precautions for Firefighters

Move container from fire area if it can be done without risk. Cool containers with water. Do not apply water directly on this product. Heat is generated when mixed with water. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode. Avoid contact with skin.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Do not get in eyes, on skin or on clothing. Avoid breathing mist, vapors or spray. Do not ingest. War appropriate personal protective equipment.

Environmental Precautions

Environmental Precautions Keep out of water supplies and sewers. Do not flush into surface water or sanitary sewer system. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies.

Methods and materials for containment and cleaning up

Methods for Cleaning Up In cause of spill or leak, stop the leak as soon as possible, if safe to do so. Completely contain spilled materials with dikes, sandbags, etc. Shovel dry material into suitable container. Liquid material may be removed with a vacuum truck. Remaining material may be diluted with water and neutralized with dilute acid, then absorbed and collected. Flush spill area with water, if appropriate.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid breathing vapor or mist. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not ingest. Do not eat, drink or smoke in areas where is material is used. Wear personal protective equipment. Never add water to product. When mixing, slowly add product to water to minimize heat generation and spattering.

Conditions for safe storage, including any incompatibilities

Storage Store and handle in accordance with all current regulations and standards. Keep containers tightly closed and properly labeled. Do not store in aluminum containers or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances.

Incompatible Products Acids and halogenated compounds, prolonged contact with aluminum, brass, bronzem copper, lead, tin, zinc or any other alkali sensitive metals or alloys, releases heat when diluted in water.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Components with limit values that require monitoring at the workplace:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m³	TWA: 2 mg/m³	-

Appropriate engineering controls

Provide local exhaust ventilation where dust or mists may be generated. Ensure compliance with applicable exposure limits.

Individual protection measures, such as personal protective equipment

Eye & Face Protection Wear chemical safety goggles with a face-shield to protect against eye and skin contact when appropriate.

Hand & Skin Protection	Wear protective clothing to minimize skin contact. Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Always place pants legs over boots. Contaminated clothing should be removed, then discarded or laundered. Discard contaminated leather goods. Wear appropriate chemical resistant gloves.
Respiratory Protection	A NIOSH approved respirator with N95 cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. If eye irritation occurs, a full face mask should be used.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices. Wash hands and affected skin immediately after handling, before breaks, and at the end of the workday. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	**Appearance**	Clear-White
Odor	Characteristic	**Odor Threshold**	No information available

Property	**Values**
pH	> 13
Melting Point/Range	No data available
Boiling Point/Boiling Range	100 - 144° C
Flash Point	N/A
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	13 – 135 mmHg @ 60° C
Vapor Density	No data available
Relative Density	No data available
Specific Gravity	1.53
Water Solubility	100
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
Mixing with water, acid or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverae products in enclosed spaces/

Conditions to avoid
No information available

Incompatible materials

Acids and halogenated compounds. Prolonged contact with aluminum, brass, copper, lead, tin, zinc or other alkali sensitive metals or alloys. Releases heat when diluted with water.

Hazardous decomposition products
Toxic fumes of sodium oxide.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hydroxide 1310-73-2	-	= 1350 mg/kg (Rabbit)	-
Sodium Chloride 7647-14-5	= 3g/kg (Rat)	=10 g/kg (Rabbit)	42 g/m³ (Rat) 1h

Likely Routes of Exposure
Skin contact, Eye contact, Inhalation, Ingestion

Symptoms

Eye Contact Corrosive. Causes eye damage.
Skin Contact Corrosive. Causes skin irritation and burns.
Inhalation Corrosive. May cause irritation of the respiratory tract.
Ingestion Corrosive. Harmful if swallowed.

Chronic Toxicity

Carcinogenicity No known significant effects or critical hazards.
Mutagenicity No known significant effects or critical hazards.
Teratogenicity No known significant effects or critical hazards.
Developmental Effects No known significant effects or critical hazards.
Fertility Effects No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Toxicity
No further relevant information available.

Behavior in Environmental Systems
This material is inorganic and not subject to biodegradation. This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material is believed to exist in the disassociated state in the environment.

Additional Ecological Information
This material has exhibited slight toxicity to terrestrial organisms. This material has exhibited moderate toxicity to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Disposal should be in accordance with applicable regional, national and local laws and regulations.

Uncleaned Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT
Not Regulated

IATA
Not Regulated

IMDG
Not Regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

Section 313 of Tital III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

No information available

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material:

1310-73-2 – Sodium Hydroxide

California Proposition 65

This product does not contain any substance regulated by California Proposition 65.

US State Right-To-Know Regulations

Chemical Name	New Jersey	Pennsylvania	Massachusetts	Rhode Island
Sodium Hydroxide 1310-73-2	X	X	X	X

16. OTHER INFORMATION

NFPA	**Health** 3	**Flammability 0**	**Instability 2**
HMIS	**Health** 3	**Flammability 0**	**Physical Hazards 2**

Prepared By	Birsch Industries 476 Viking Drive Virginia Beach, VA. 23452 TEL: 757-622-0355
Issuing Date	No information available
Revision Date	19-March 2015
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