



# SAFETY DATA SHEET

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

### GHS product identifier

Product Name                      FORMULA 1

### Other means of identification

Product Code(s)                      2481-2

Synonyms                                      N/A

### Recommended use of the chemical and restrictions on use

Recommended Use                      Steam Cleaner

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

## 2. HAZARDS IDENTIFICATION

### Classification

ACUTE TOXICITY:ORAL – Category 4  
SKIN CORROSION/IRRITATION – Category 1C  
SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1  
AQUATIC: ACUTE – Category 3

### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal Word                                      DANGER

**Hazard Statements**

- Harmful if swallowed
- Causes severe skin burns and eye damage
- Causes serious eye damage
- Toxic to aquatic life

**Appearance** Blue - Green**Physical State** Liquid**Odor** Strong Scent**Symbol:****Precautionary Statements****Prevention**

Wear protective gloves/protective clothing/eye protection/face protection.  
 Wash face, hands, and any exposed skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Do not breathe dust/fume/gas/mist/vapors/spray.

**Response**

If exposed or concerned: Get medical advice/attention  
 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.  
 IF ON SKIN: Remove all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.  
 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
 Wash contaminated clothing before reuse.

**Storage**

Store locked up. Keep only in original container. Store in corrosive resistant container.

**Disposal**

Dispose of contents and container in accordance with applicable local, regional, national and/or international regulations. Avoid release to the environment. Absorb spillage to prevent material damage.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms**

Chemical Name	CAS-No	Weight %	Notes
Nonylphenol Ethoxylate	9016-45-9	1 – 10	*
2-Butoxyethanol	111-76-2	1 – 10	*
Sodium Hydroxide	1310-73-2	1 – 5	*
Benzenesulfonic Acid, Dodecyl-	27176-87-0	1 – 5	*
Sodium Silicate	1344-09-8	< 2	*

\* 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**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek immediate medical attention/advice.

**Skin Contact**

Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation occurs.

**Inhalation**

Remove victim to fresh air.

**Ingestion** Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

**Symptoms and Effects** Prolonged contact may cause painful stinging or burning of eyes and lids, watering of eye, and irritation. Contact may cause irritation and redness.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

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

### Unsuitable Extinguishing Media

Not determined

### Specific Hazards Arising from the Chemical

Non-flammable

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment as required.

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Absorb spillage to prevent material damage.

**Methods for Cleaning Up** Keep in suitable, closed containers for disposal. Store in corrosive resistant container.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Biological Limit Values** No biological exposure limits noted.

**Appropriate Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

**Eye & Face Protection** Wear approved safety goggles.

**Hand & Skin Protection** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

**Hygiene Measures** Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Appearance</b>	Blue - Green
<b>Odor</b>	Strong Scent	<b>Odor Threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>
pH	11.0 – 12.0

<b>Melting Point/Range</b>	No data available
<b>Boiling Point/Boiling Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Flammability Limits in Air</b>	
upper flammability limit	No data available
lower flammability limit	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Relative Density</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Water Solubility</b>	No data available
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Flammable Properties</b>	No data available
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	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

Keep out of reach of children.

### Incompatible materials

No data available

### Hazardous decomposition products

No hazardous decomposition products are known.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Avoid breathing vapors or mists.
<b>Skin Contact</b>	Causes sever skin burn.
<b>Eye Contact</b>	Causes serious eye damage.

### Information on Toxicological Effects

<b>Acute Toxicity</b>	Toxic in contact with skin. Harmful if swallowed.
<b>Skin Corrosion/Irritation</b>	Causes severe skin burns and eye damage.
<b>Serious Eye Damage/Eye Irritation</b>	Causes serious eye damage.
<b>Respiratory Sensitization</b>	No data available
<b>Skin Sensitization</b>	No data available
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Reproductive Toxicity</b>	This product is not expected to cause reproductive or developmental effects.

<b>Specific Target Organ Toxicity Single Exposure</b>	Not applicable
<b>Specific Target Organ Toxicity Repeated Exposure</b>	Not applicable
<b>Aspiration Hazard</b>	No data available

## 12. ECOLOGICAL INFORMATION

<b>Ectotoxicity</b>	No data available
<b>Persistence and Degradability</b>	No data available
<b>Bioaccumulative Potential</b>	No data available
<b>Mobility In Soil</b>	No data available
<b>Other Adverse Effects</b>	Dangerous to aquatic life in high concentrations.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Instructions</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
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## 14. TRANSPORT INFORMATION

### **DOT**

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

## 15. REGULATORY INFORMATION

### **U.S. Federal Regulations**

This product contains ingredients that conform to the Toxic Substances Control Act (TSCA):  
 Sodium Hydroxide (1310-73-2)

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Hazard Categories: Acute Health  
 SARA 302 Extremely Hazardous Substance: No  
 SARA 311/312 Hazardous Chemical: Sodium Hydroxide (1310-73-2)  
 SARA 313: Sodium Hydroxide (1310-73-2)

### **Clean Air Act (CAA)**

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

### **CERCLA (40 CFR 302.4)**

Not Listed

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

Not Listed

### **Safe Water Drinking Act (SDWA)**

Not Regulated

### **U.S. State Right to Know Regulations**

Not listed

### **California Proposition 65**

Not Listed

**16. OTHER INFORMATION****NFPA**

Health 3

Flammability 0

Instability 0

**Prepared By**Birsch Industries  
476 Viking Drive  
Virginia Beach, VA. 23452  
TEL: 757-622-0355**Issuing Date**

No information available

**Revision Date**

1-June 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**