



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 FORMULA B-12

Other means of identification

Product Code(s) 2483

Synonyms B-12 Steam Cleaner

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 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 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 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 of 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
Sodium Hydroxide	1310-73-2	5 – 7	*
Nonylphenol Ethoxylate	9016-45-9	3 – 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**

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

Physical State	Liquid	Appearance	Green
Odor	Strong Scent	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>
pH	12.5 – 13.5
Melting Point/Range	No data available
Boiling Point/Boiling Range	No data available

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	No data available
Vapor Density	No data available
Relative Density	No data available
Specific Gravity	No data available
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

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

Ingestion	Harmful if swallowed.
Inhalation	Avoid breathing vapors or mists.
Skin Contact	Causes severe skin burn.
Eye Contact	Causes serious eye damage.

Information on Toxicological Effects

Acute Toxicity	Toxic in contact with skin. Harmful if swallowed.
Skin Corrosion/Irritation	Causes severe skin burns and eye damage.
Serious Eye Damage/Eye Irritation	Causes serious eye damage.
Respiratory Sensitization	No data available
Skin Sensitization	No data available
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	Not applicable
Specific Target Organ Toxicity Repeated Exposure	Not applicable

Aspiration Hazard No data available

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

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**

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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