

SAFETY DATA SHEET

Item Code: N0707 & N0708

Section 1. Identification of the material and the supplier

Item Code: N0707 & N0708
 Product: Foam-Brite Cleaner
 Product Use: Condenser Cleaner

New Zealand Supplier: Realcold Ltd
 Address: 9 Prescott Street
 Penrose, Auckland
 Telephone: 09 526 5700
 Fax Number: 09 526 5721
Emergency Telephone: 09 526 5700
0800 766 764 (National Poison Centre)

Manufacturer: Greenleaf Solutions Ltd, PO Box 64-125, Botany

Date of MSDS Preparation: 5 December 2011 – ver 1

Section 2. Hazards Identification

This substance has been determined by the manufacturer to be hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

Group Standard & EPA Approval Code: Cleaning Products (Corrosive) – HSR002526

Pictograms



Toxic



Corrosive

| HSNO Class. | Hazard Code | Hazard Statement | EU Risk Phrases |
|---------------|-------------|--|-----------------|
| 6.1D (oral) | H302 | Harmful if swallowed. | R22 |
| 6.1D (dermal) | H312 | Harmful in contact with skin. | R21 |
| 8.1A | H290 | May be corrosive to metals. | |
| 8.2B | H314 | Causes severe skin burns and eye damage. | R35/R36/R38 |
| 8.3A | H318 | Causes serious eye damage. | R41 |
| 9.1D | H402o | Harmful to aquatic life | R52 |
| 9.3C | H433 | Harmful to terrestrial vertebrates. | No equivalent |

Prevention Code Prevention Statement

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| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P104 | Read safety data sheet before use |
| P234 | Keep only in original container. |
| P260 | Do not breathe fumes. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves, clothes, eye & face protection |

Response Code Response Statement

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| P101 | If medical advice is needed, have product container or label at hand. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P390 | Absorb spillage to prevent material damage. |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P301 + P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303 + P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304 + P340 | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

Storage Code Storage Statement

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| P405 | Store locked up. |
| P406 | Store in corrosive resistant container with a resistant inner liner. |

Disposal Code Disposal Statement

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| P501 | Dispose of absorbed materials and liquid waste in accordance with all local authorities and regulations. |
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Section 3. Composition / Information on Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|----------------------------|---------|---------------|
| Water | >82% | 7732-18-5 |
| Sodium Hydroxide | >12.5% | 1310-73-2 |
| Non-ionic surfactant blend | >5% | Not available |
| Food Grade Colour Dye | >0.005% | Not available |

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

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| If on Skin | Remove contaminated clothing and wash skin with warm soapy water. Do not scrub. If swelling, redness, blistering or irritation occurs, get medical assistance |
| If Swallowed | If swallowed, call a physician immediately. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. |
| If Inhaled | Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult. |

Section 5. Fire Fighting Measures

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| Hazard Type | Non combustible |
| Hazards from decomposition products | Decomposition forms toxic fumes of sodium oxide. Flammable gas may be produced on contact with metals. |
| Suitable Extinguishing media | Use agents suitable for surrounding fires. |
| Precautions for firefighters and special protective clothing | Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible. Dike area as run-off may create additional environmental contamination |
| HAZCHEM CODE | None allocated |

Section 6. Accidental Release Measures

Keep people away. Wear chemical protective clothing. Stop discharge if possible. Isolate and remove discharged material. Flush and clean area with water

Section 7. Handling and Storage

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| Handling | Do not permit workers to handle product without proper training or proper protective equipment. |
| Storage | Keep container closed and upright when not in use. Store only in polyethylene or glass containers. DO NOT USE METAL CONTAINERS. Store in well-sealed containers, which are protected from physical damage. Empty containers may contain residues and vapours; treat as if full and observe all product precautions. Do not reuse container. KEEP OUT OF REACH OF CHILDREN. |

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | CAS # | TWA | | STEL | |
|------------------|-----------|-----|---------|------|-------|
| | | ppm | mg/m3 | ppm | mg/m3 |
| Sodium Hydroxide | 1310-73-2 | | 2 mg/m3 | | |

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

LOCAL EXHAUST: Acceptable

Personal Protection

Protective Gloves: Rubber or neoprene
Eye Protection: Chemical splash goggles (ANSI Z-87.1 or equivalent)
Other: overalls recommended.
Work/hygienic practices: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

Section 9 Physical and Chemical Properties

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|---------------------------------------|--------------------------------|
| Appearance | Clear Yellow Liquid |
| Odour | Little or no odour |
| Flash Point | N/A |
| Boiling Point | 100 ^o c @ 760 mm Hg |
| Vapour Pressure mm Hg | 1 @ 20 ^o C |
| Specific Gravity | 1.1 |
| Solubility in Water | Soluble |
| Evaporation rate (ethyl acetate = 1): | <1 |
| Vapor density (air = 1): | >1 |

Section 10. Stability and Reactivity

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|----------------------------------|---|
| Stability of Substance | Stable |
| Conditions to Avoid | Heat, sparks, open flames. |
| Incompatible Materials | Acids, flammable liquids, organics, halogens, metals, nitro methane. When wet, attacks chemically active metals such as aluminium, tin, lead, and zinc to produce flammable hydrogen gas. |
| Hazardous Decomposition Products | Decomposition forms toxic fumes of sodium oxide. |

Section 11 Toxicological Information

Sodium Hydroxide 1310-73-2 = LD50 – dermal (Rabbit) = 1350 mg / kg
LD50 – oral (rabbit) = 500 mg/kg

Summary of acute hazards:

Exposure to human tissue will result in irritation and chemical burns.

Route of Exposure:

Inhalation: Corrosive to respiratory system.
Eye Contact: Corrosive, contact causes severe eye burns.
Skin Contact: Corrosive to skin.
Ingestion: Poison! Swallowing large quantities can cause death & burns to digestive system.

Summary of chronic hazards

Exposure to human tissue will result in irritation and chemical burns.

Medical conditions aggravated by exposure
 Individuals with pre-existing or chronic diseases of the eyes, skin
 or persons with chemical sensitivity may have increased susceptibility to
 excessive exposures.

Section 12. Ecotoxicological Information

Sodium Hydroxide Food Chain Concentration Potential None
 AQUATIC TOXICITY 125 ppm/96 hr/mosquito fish/TLm

Section 13. Disposal Considerations

Dispose of absorbed materials and liquid waste in accordance with all local authorities and regulations.

Section 14 Transport Information

Classified as a Dangerous Good for transport

Road and Rail Transport (in NZ ; NZS 5433:2007)

UN No: 1824
 Class-primary 8
 Packing Group II
 Proper Shipping Name Sodium Hydroxide, Solution,

Air Transport

UN No: 1824
 Class-primary 8
 Packing Group II
 Proper Shipping Name Sodium Hydroxide, Solution,

Marine Transport

UN No: 1824
 Class-primary 8
 Packing Group II
 Proper Shipping Name Sodium Hydroxide, Solution,
 IMDG 8226

Section 15 Regulatory Information

ERMA Approval Code: **Cleaning Products (Corrosive) – HSR002526**

HSNO Classification: 6.1D, 8.1A, 8.2B, 8.3A, 9.1D, 9.3C

HSNO Controls:

Trigger quantities for this substance:

| | Trigger Quantity |
|-----------------------------|------------------|
| Approved Handler | Not Required |
| Location Certificate | Not applicable |
| Tracking Trigger Quantities | Not applicable |
| Signage Trigger Quantities | 1000L (8.1A) |

Product Name: Foam-Brite Cleaner Item No: N0707/8
 Date of MSDS: 6 December 2011

Issued by: Realcold Ltd
 Tel: 09 526 5700

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| Emergency Response Plan trigger Quantities |
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|-------------|
| 1000L(8.2B) |
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Section 16**Other Information**

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been issued by Realcold Limited and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Realcold Limited or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Realcold Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Realcold Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the New Zealand distributor, Realcold Ltd, if further information is required.

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Review Date: 6 December 2016