

## MATERIAL SAFETY DATA SHEET

FILE NO.: 0003

## STAINLESS STEEL &amp; CHROME CLEANER

MSDS DATE: 9/15/2011

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Stainless Steel &amp; Chrome Cleaner

MANUFACTURER: Flitz International, Ltd.

ADDRESS: 821 Mohr Avenue, Waterford, WI 53185

EMERGENCY PHONE: 1-800-558-8611

FAX PHONE: 1-262-534-2991

CHEMICAL FAMILY: Detergent Solution

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>Percent</u>
Proprietary Surfactant Blend		98
2-butoxy ethanol	111-76-2	2

## SECTION 3: HAZARDS IDENTIFICATION

**Emergency Overview:** This product is a colorless to slight amber liquid with a mild odor. It is corrosive to the eyes and a mild skin irritant. If ingested, this product may be harmful or fatal.

**Potential Health Effects:**

**Eye:** Mildly irritating

**Skin:** No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.

**Ingestion:** May cause stomach or intestinal irritation if swallowed.

**Inhalation:** No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas.

**Chronic Effects:**

**Skin:** Prolonged or repeated exposure can cause drying, defatting, and dermatitis.

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**SECTION 4 - FIRST AID MEASURES**

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**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.

**Skin:** Immediately flush with mild soap and water for 15 minutes.

**Eye:** Immediately flush with water for 15 minutes. Seek medical attention if irritation persists.

**Ingestion:** Drink plenty of water to dilute

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## SECTION 5 - FIRE FIGHTING MEASURES

**Flammability:** Not Flammable

**Flash Point (°F, °C, PMCC):** Does not ignite

**Autoignition Temperature (°F, °C):** Not applicable

**Flame Propagation or Burning Rate of Solid Materials:** Not applicable

**Sensitivity to Static Discharge:** Not applicable

**Sensitivity to Mechanical Impact:** Not applicable

**Extinguishing Media:** Water spray, carbon dioxide, and dry chemical.

**Special Fire Fighting Procedures:** Evacuate personnel to a safe area. Keep containers cool with water spray. Avoid breathing decomposition products. Wear self-contained breathing apparatus and full body protection.

**Unusual Fire and Explosion Hazards:** None

**Special Exposure Hazards:** In event of fire created carbon oxides, oxides of phosphorous may be formed.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedure:** Do not allow into open waterways and ground water systems. Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

## SECTION 7 – HANDLING AND STORAGE

**Keep Out Of Reach Of Children.** Keep container tightly closed.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:** If current ventilation practices are not adequate for minimizing exposures, additional ventilation or exhaust systems may be required.

**Respiratory protection:** Not normally required if good ventilation is maintained.

**Eye protection:** Use protective glasses if splashing or spray back is likely.

**Skin protection: Prolonged exposure or dermal sensitive individuals** use protective gloves.

**Other protective clothing or equipment:** Eye Bath, Safety Shower, Full Protective Clothing.

**Work Hygienic Practices:** The usual precaution for the handling of chemicals must be observed.

### Exposure limit values:

	OSHA PEL	ACGIH RLV
2-butoxy ethanol	TWA 50 ppm(240 mg/m <sup>3</sup> )	22 ppm (97 mg/m <sup>3</sup> ) 5mg/m <sup>3</sup>

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear liquid

**Specific Gravity (H<sub>2</sub>O = 1):** 1.01 ± 0.01

**Density (25° C):** 8.4 lbs./gal

**Solubility In Water:** Soluble (100% in water)

**Boiling Point:** 100° C/212° F

**Freezing Point:** 32 F

**Odor:** Unscented

**pH:** 9.00

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## SECTION 10 – STABILITY AND REACTIVITY

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**Stability:** Stable

**Conditions to Avoid:** None known.

**Hazardous Decomposition Products:** Normal products of combustion – CO, CO<sub>2</sub>; Oxides of phosphorous may occur.

**Hazardous Polymerization:** Will not occur.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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Acute Toxicity: Oral LD<sub>50</sub> (rat) >5 g/kg body weight.  
 Dermal LD<sub>50</sub> (rabbit) >5 g/kg body weight.

**Carcinogens:** No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

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## SECTION 12 – ECOLOGICAL INFORMATION

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Readily biodegradable per OECD 301D, closed bottle test.

Environmental Hazard: Low, based on toxicology profile

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## SECTION 13 – DISPOSAL CONSIDERATIONS

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Dispose of used and unused product in accordance with Local, State, Provincial and Federal regulations for your location.

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## SECTION 14 - TRANSPORT INFORMATION

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### U.S. Department of Transportation: Not Regulated

Proper Shipping Name:

Hazard Class:

ID Number:

### Canadian T.D.G.: Not Regulated

Proper Shipping Name: Detergent Solution

Hazard Class: Non Hazardous

ID Number: Not required

### Water Transportation (IMDG): Not Regulated

Proper Shipping Name: Detergent Solution

Hazard Class: Non hazardous

ID Number: Not required

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## SECTION 15 - REGULATORY INFORMATION

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**SARA Title III:** 2-butoxy ethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 as Category N230-Certain Glycol Ethers

**WHMIS Classification:** Class D - Division 2B, eye irritant.

**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

**Environmental Regulatory Lists:**

**SARA:** Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 – None of the ingredients are listed.

**Toxic Substances Control Act (TSCA):** All the ingredients are listed on the Chemical Substance Inventory

**Canadian Domestic Substance List (DSL):** All ingredients are listed.

**INTERNATIONAL INVENTORY LISTINGS:**

Components in this product are listed on the: Australian AICS

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## SECTION 16 - OTHER INFORMATION

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**Shipping Containers:**

Polyethylene Totes 275 gallon

Polyethylene Drums 55 Gallons

Polyethylene Pails 5 gallon

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**HMIS Rating**

**Health: 1**

**Flammability: 0**

**Reactivity: 0**

**Date: September 15, 2011**

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**Disclaimer:** As the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, including, but not limited to merchantability or fitness for a particular use, is made concerning this product. The user assumes all risk of use or handling whether or not in accordance with any directions or suggestions of the supplier. Seller shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our products, from breach of any warranty or from any other cause, the exclusive remedy against the seller being to require replacement or repair of defective goods.

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