



**Hero Biobased Multipurpose Cleaner**

**MSDS DATE: 12/8/2009**

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT NAME:** Hero Biobased Multipurpose Cleaner  
**PRODUCT USE DESCRIPTION:** Cleaning Compound / Solution  
**MANUFACTURER:** Solvent-Systems International  
**ADDRESS:** 70 King Street, Elk Grove Village, IL 60007  
**EMERGENCY PHONE:** 847-437-1100  
**CHEMTREC PHONE:** 800-424-9300

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>
Potassium Saponified Vegetable Oils	Various	10-17%
Citrus Terpene	94266-47-4	<3.5%
Sodium Carbonate	497-19-8	<3%
Potassium Carbonate	584-08-7	<3%
Sodium Silicate	1334-09-08	<3%

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**SECTION 3: HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW:** Irritating to the eyes. Prolonged contact with skin or other tissue will cause irritation. May cause irritation of the respiratory tract.

**ROUTES OF ENTRY:** Ingestion, inhalation, dermal and ophthalmic.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Irritating to the eyes.

**SKIN:** May cause irritation to the skin.

**INGESTION:** May be harmful if swallowed. May cause dizziness, incoordination, headache, nausea, vomiting and diarrhea.

**INHALATION:** Inhalation of vapors or mists of the product may be irritating to the respiratory system.

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**SECTION 4: FIRST AID MEASURES**

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**EYES:** Immediately flush eyes with large amounts of water for at least 15 minutes. Immediately seek medical attention if irritation persists.

**SKIN:** Rinse affected areas with water and remove all contaminated clothing. If irritation develops, seek medical attention.

**INGESTION:** If ingestion occurs, seek medical attention. Do not induce vomiting.

**INHALATION:** If symptoms are experienced, move victim to fresh air and remove the source of contamination. If symptoms persist or worsen, get medical attention immediately.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**EXTINGUISHING MEDIA:** Water fog, foam, dry powder, carbon dioxide

**SPECIAL FIRE FIGHTING PROCEDURES:** As in any fire, wear self contained breathing apparatus – pressure demand (MSHA/NIOSH approved or equivalent) and full protective gear

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** None

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:** Isolate area, keeping unnecessary personnel away. Stay upwind and out of low areas. Prevent further leakage, as is safe to do so and prevent entry into waterways, sewers or spillways. Eliminate all ignition sources and wear appropriate protective equipment and clothing during clean-up. Small spills may be cleaned up with a non combustible spill absorbent and should be disposed of properly. Large spills may should be contained using an earthen or other means dike and pumped to an appropriate container for later disposition.

**SECTION 7: HANDLING AND STORAGE**

**HANDLING AND STORAGE:** Prevent contact with skin and eyes. Wash hands thoroughly after handling. Store in a cool and well ventilated place - away from any open flames.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** General ventilation. Eye wash fountain and emergency showers are generally recommended for all chemicals.

**EYE PROTECTION:** Chemical proof goggles.

**SKIN PROTECTION:** Chemical impervious gloves

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Suitable protective clothing to prevent exposure.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Clear, yellow – orange thin to viscous liquid.

**ODOR:** Light citrus (orange) odor.

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** 12.5-13.5

**pH (Use):** 9 -11

**BOILING POINT:**

**F:** 212

**C:** 100

**SPECIFIC GRAVITY (H2O = 1):** 1.02

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)**

**SOLUBILITY IN WATER:** 100%

**PERCENT SOLIDS BY WEIGHT:** 18%

**VISCOSITY @ 22 C:** 75-600

**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY:** Stable at normal conditions

**CONDITIONS TO AVOID (STABILITY):** Heat, flames, sparks.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong acids and oxidizers.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** The material is alkaline and may emit alkaline mist while boiling. Oxidized citrus terpenes have been found to be a skin sensitizer and irritant.

**HAZARDOUS POLYMERIZATION:** N/A

**SECTION 11: TOXICOLOGICAL INFORMATION**



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**TOXICOLOGICAL INFORMATION:** Concentrated form is an alkaline cleaning compound and can cause damage to tissue consistent with that level of alkalinity, which is reduced through dilution. Citrus terpenes have been tested to have low dermal and ingestion toxicity when tested with rats. The FDA has recognized terpenes under GRAS, as generally recognized as safe.

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**SECTION 12: ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** This product is readily biodegradable. Concentrated cleaner though, is alkaline and is to be properly contained and disposed of properly.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Dispose in accordance with applicable regulations. All wastes must be handled in accordance with local, state and federal regulations, which may vary.

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**SECTION 14: TRANSPORT INFORMATION**

**NOTES:** Refer to bill of lading or container label for DOT or other transportation hazard classifications, if any.

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**SECTION 15: REGULATORY INFORMATION**

Refer to container labeling for further information.

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**SECTION 16: OTHER INFORMATION**

**OTHER INFORMATION:**

**HMIS Ratings:**  
Health – 1; Reactivity – 1; Flammability – 0.

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