

Safety Data Sheet

Issued Date: November 10, 2015

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Version 1

1. IDENTIFICATION

Product Identifier

Product Name GRN-637 Green Friendly Liquid Laundry Detergent

Other means of identification

Product Code GRN-637

Recommended use of the chemical and restrictions on use

Recommended Use Liquid laundry detergent for machine or hand washing.

Details of the supplier of the safety data sheet

Missouri Vocational Enterprises
2727 Highway K
Bonne Terre, MO 63628
Phone: (573) 358-5516

Emergency Telephone Number

INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDOUS IDENTIFICATION

Signal Word DANGER

Classification	Hazard Category
Skin corrosion/irritation	1A
Serious eye damage/eye irritation	1
Hazardous to the aquatic environment, acute hazard	3
Hazardous to the aquatic environment, long-term hazard	3

Health Hazard Statement(s)

H302 – Harmful if swallowed.
H314 – Causes severe skin burns and eye damage.
H318 – Causes serious eye damage.
H402 – Harmful to aquatic life.

H412 – Harmful to aquatic life with long lasting effects.

Hazard Pictogram(s)



Hazard Ratings

	NFPA	HMIS
Health	3	3
Flammability	0	0
Reactivity	1	1
PPE	X	N/A

Precautionary Statement(s)

P260 – Do not breathe mist or vapor.
P264 – Wash face, hands and any exposed skin thoroughly after handling.
P270 – Do not eat, drink, or smoke when using this product.
P273 – Avoid release to the environment.
P280 – Wear protective gloves/protective clothing/ eye protection/face protection.
P301+P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
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 victim 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.

P310 – Immediately call a POISON CENTER or doctor/physician.

P363 – Wash contaminated clothing before reuse.

P405 – Store locked up.

P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.

Potential Health Effects

Skin Contact	May cause severe skin burns.
Eye Contact	May cause serious eye damage.
Inhalation	May be fatal when inhaled.
Ingestion	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name/Pure Substance	CAS #	Weight-%
Water	7732-18-5	75-80
Walwet Acid 98	68584-22-5	10-15
CalBlend DF	Proprietary	1-5
Sodium Hydroxide	1310-73-2	0-2
Calfoam ES-302	Proprietary	0-2
Sodium Carbonate	497-19-8	0-2
Citric Acid	77-92-9	0-2
Glydant Plus	Proprietary	0-1

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

General Advice	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact, lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Ingestion	Call a POISON CENTER or doctor/physician immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and effects

Symptoms	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
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5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water fog, foam, dry chemical powder, carbon dioxide (CO₂)

Unsuitable Extinguishing Media: Do not use water jet as extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical

During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of this SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and clean up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean up	Large spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a material like vermiculite, sand, or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Precautions for safe handling

Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not eat, drink, or smoke while working. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of this SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH	OSHA	NIOSH
Sodium Hydroxide (CAS 1310-73-2)	Ceiling: 2 mg/m ³	PEL: 2 mg/m ³	Ceiling: 2 mg/m ³

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin and Body Protection Wear appropriate chemical resistant clothing and gloves.

Respiratory Protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear positive pressure self-contained breathing apparatus (SCBA).

General Hygiene Considerations Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State

Liquid

Odor

Clean Breeze

Color

Blue

Odor Threshold

Not Determined

PropertyValuesRemarks - Method

pH

8-9

Melting Point/Freezing Point

Not determined

Boiling Point/Boiling Range

Not determined

Flash Point

Not determined

Evaporation Rate

Not determined

Flammability (Solid, Gas)

Liquid- Not applicable

Upper Flammability Limits

Not determined

Lower Flammability Limits

Not determined

Vapor Pressure

Not determined

Vapor Density

Not determined

Specific Gravity

1.03

Water Solubility

Not determined

Solubility in other solvents

Not determined

Partition Coefficient

Not determined

Auto-ignition Temperature

Not determined

Decomposition Temperature

Not determined

Viscosity

Not determined

Explosive Properties

Not determined

Oxidizing Properties

Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under normal conditions.

Conditions to Avoid

Contact with incompatible materials.

Incompatible materials

Strong acids and strong oxidizers.

Hazardous Decomposition Products Carbon oxides, sodium oxides, nitrogen oxides, and formaldehyde.

Hazardous Polymerization Does not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity

Toxicological data have not been determined specifically for this product.

12. ECOLOGICAL INFORMATION

Ectotoxicity

Ecological studies have not been carried out on this product.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of in accordance with local, regional, national, and international laws and regulations.

Hazardous Waste Code Not available.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated Packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT I.D. Number Not available.

DOT Proper Shipping Name Not available.

DOT Hazard Classes:

US DOT Not available.

Road (ADR) Not available.

Air (ICAO/IMDG) Not available.

Sea (IMO/IMDG) Not available.

Packing Group Not available.

DOT Label Not available.

15. REGULATORY INFORMATION

U.S. Federal Regulations

Contents of this SDS comply with OSHA Hazard Communication Standard CFR 1910.1200.

OSHA Hazard Communication Standard (29 CFR 1910.1200)

(X) Hazardous () Non- Hazardous

SARA TITLE III

Section 302/304

Section 311/312

Section 313

Extremely Hazardous Substances: Formaldehyde (50-00-0)

(40CFR370) Hazardous Categories: Acute

Contains the following SARA 313 Toxic Release Chemicals: 3-Iodo-2-propynyl butylcarbamate (55406-53-6)

CERCLA**CERCLA Regulatory**

Sodium Hydroxide (CAS 1310-73-2), Sulfuric Acid (7664-93-9)

State Regulations**California Prop 65**

This product may contain the following ingredient(s) known to the state of California to cause cancer, birth defects or other reproductive harm: Sulfur Dioxide (7446-09-5) and Formaldehyde (50-00-0).

Inventories

Component	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Sodium Hydroxide (1310-73-2)	X	X	X	X	X	X	X	X
CalBlend DF (Proprietary)	X	X	X		X			X
Sodium Carbonate (497-19-8)	X	X	X	X	X	X	X	X

16. OTHER INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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 Prepared By: Ryan AuBuchon, Chemist I