SAFETY DATA SHEET

Version 1.2
Effective Date: 04/20/18

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Acculogic Laundry Detergent
Description:	Laundry Detergent
Product Code:	FM9116
Suggested Use:	Concentrated detergent and brightener
Restrictions on Use:	
Supplier:	Accurate Chemical 731 W Fairmont Dr Tempe, AZ 85282
Telephone:	602-996-9191
Fax:	602-996-9194
Emergency Phone:	CHEMTREC 1-800-424-9300 International 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

GHS Classification:
Acute Oral Toxicity (Category 4)
Serious Eye Damage (Category 1)
Acute Aquatic Toxicity (Category 2)

GHS Label Elements

Pictogram:

Signal Word: Danger

Hazard Statements:
H302: Harmful if swallowed
H318: Causes serious eye damage
H401: Toxic to aquatic life

Precautionary Statements:
P264: Wash hands thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a poison center or doctor/physician if you feel unwell.
P305+P351+P338+P310: 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.
P312: Call a poison center or doctor/physician if you feel unwell.
P501: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

HMIS Classification:	Health Hazard:	2
	Flammability:	1
	Physical Hazards:	0
NFPA Rating:	Health Hazard:	2
	Fire:	1
	Reactivity Hazard:	0

Potential Health Effects

Inhalation:	May be harmful if inhaled. Avoid breathing vapors.
Skin:	May cause skin irritation.
Eyes:	Causes serious eye irritation or damage. Avoid contact.
Ingestion:	May be harmful if swallowed. Do not ingest.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Ethoxylated Alcohol Mixture	66455-15-0, 68551-12-2	80 - 90%
Water	7732-18-5	10%

Synonyms: N/A

4. FIRST AID MEASURES

If Inhaled:	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms are experienced.
Skin Contact:	Flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, consult a physician.
Eye Contact:	Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. Immediately call a doctor or physician.
If Ingested:	Do not induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Flammability Overview:	Considered a low flammability risk.
Flash Point:	>38°C (100F)
Extinguishing Media:	Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Tailor extinguishing media to surrounding fire. Avoid using high-pressure water jet that can froth liquid.
Special Protective Equipment for Firefighters:	Wear a self-contained breathing apparatus (SCBA) for fighting large fires.
Hazardous Combustion Products:	Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment. Avoid breathing vapors, mist, or gas. Always ensure adequate ventilation. No action should be taken involving any personal risk or without suitable training.
Environmental Precautions:	If safe to do so, avoid the dispersal of spilled material and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution. Product may be harmful to the environment. Collect spillage.
Containment and Clean Up:	If safe to do so, stop the leak or spill. Move containers away from the spill area. Prevent entry into sewers, water courses, basements, and confined areas. Contain and collect spilled material with non-combustible, absorbent material and place in a container for disposal according to local regulations. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same physical hazards as the spilled product. If assistance is needed call CHEMTREC or emergency services.

7. HANDLING AND STORAGE

Safe Handling:	Use appropriate personal protective equipment. Handle in a well-ventilated area. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing and protective equipment before entering eating areas.
Safe Storage:	Keep containers tightly closed in a cool, dry, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Exposure Limit	Basis
N/A	N/A	N/A	N/A

Personal Protective Equipment

Eye Protection:	Tightly fitting safety goggles or safety glasses should be sufficient. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available where eye contact can occur.
Hand Protection:	Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves. Wash and dry hands after use.
Skin Protection:	Wear long sleeves, a chemical apron, or other protective clothing to prevent skin contact. Safety showers should be located in the areas where skin contact can occur.
Respiratory Protection:	Always ensure adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full-face respirator with appropriate cartridges. Respiratory protection may be needed for non-routine or emergency situations.

General Controls: Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance and Color:	Clear
Odor:	Characteristic
Odor Threshold:	N/A
pH (1%):	6-8
Melting/Freezing Point:	<5°C (41°F)
Boiling Point:	N/D
Flash Point:	>38°C (100°F)
Evaporation Rate:	N/D
Flammability (solid, gas):	N/A
Flammability/Explosion Limits:	N/A
Vapor Pressure @ 20°C:	<0.1 mmHg
Vapor Density:	>1 (air=1) 0.99
Specific Gravity:	8.25 lbs/gal
Density:	Soluble
Solubility in Water:	N/A
Partition Coefficient:	N/A
Autoignition Temperature:	N/A
Decomposition Temperature:	<100 cPs
Viscosity:	

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Conditions and Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	CAS Number	Test	Toxicity
Ethoxylated Alcohols	Mixture	Oral LD50 (Rat)	1000-2000 mg/kg (based on component data)
		Dermal LD50 (Rabbit)	>2000 mg/kg (based on component data)
		Inhalation LC50 (Rat)	>1600 mg/m^3 (OECD 403) (based on components)

Potential Health Effects

Inhalation:	May be harmful if inhaled. Avoid breathing vapors.
Skin:	May cause skin irritation.
Eyes:	Causes serious eye irritation or damage. Avoid contact.
Ingestion:	May be harmful if swallowed. Do not ingest.
Signs and Symptoms of Exposure:	Irritation Redness Watering Eyes
Chronic Effects of Long-term Exposure:	No known significant effects or critical hazards.
Carcinogenicity:	No component of this product at levels greater than 0.1% is identified as carcinogenic by IARC, NTP, or OSHA.
Mutagenicity:	Not mutagenic.

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

Component	CAS Number	Organism	Ecotoxicity (Based on component data)
Ethoxylated Alcohols	Mixture	Algae	72 hr ErC50 = 15-20 mg/l
		Daphnia magna	48 hr EC50 = 5-6 mg/l
		Fish	96 hr LC50 = 15-16 mg/l

Ecological Effects

Persistence and Degradability:	Considered readily biodegradable.
Bioaccumulation Potential:	Not expected to bioaccumulate.
Mobility in Soil:	No specific data available.
Other Adverse Effects:	This product may be harmful to the environment and aquatic organisms if released in large quantities. Avoid release into sewers, drains, and waterways. Inform the relevant authorities if the product has caused environmental pollution. Collect spillage.

13. DISPOSAL CONSIDERATIONS

Disposal:	The generation of waste should be avoided or minimized wherever possible. Material should be disposed of in accordance with all local, state, and federal regulations. Regulations vary by region. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
Contaminated Packaging:	Waste packaging should be recycled or reused whenever possible. If recycling is not feasible, contaminated packaging should be disposed of in accordance with all local, state, and federal regulations. Regulations vary by region.

14. TRANSPORT INFORMATION

DOT Information

Proper Shipping Name:	N/A
UN Number:	N/A
Hazard Class:	N/A
Packing Group:	N/A
Reportable Quantity (RQ):	N/A
Marine Pollutant:	No
Note:	Not regulated for ground transport.

15. REGULATORY INFORMATION

US Federal

SARA 302 Components:	None Listed
SARA 311/312 Hazards:	Acute Health Hazard
SARA 313 Components:	None Listed
TSCA Inventory:	All components listed or exempted.

European Union

EC Inventory:	All components listed or exempted.

State Regulations

CA Prop 65:	Contains no known hazardous material above the safe harbor limit.

16. OTHER INFORMATION

SDS Version:	1.2
Revision Date:	04/20/2018
Supersedes:	08/12/2015

The information contained in this document was carefully compiled and is believed to be accurate. The information represents the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. However, it does not represent any guarantee of the properties of the product. Norman, Fox & Co. shall not be held liable for any damages resulting from handling or from contact with the above product. It is the responsibility of the purchaser to determine the suitability of the product for their particular purposes. Nothing contained herein shall be construed to be a recommendation to use, or as a license to operate under, or to infringe any existing patents.

For product information or to re-order, call Accurate Chemical at 602-996-9191