



SAFETY DATA SHEET

NORCHEM CORPORATION encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name:	NUGEN DETERGENT
Recommended use of the chemical	Laundry Detergent.
Company Identification:	Norchem Corporation 5649 Alhambra Ave. Los Angeles, CA 90032, USA
Customer information number:	Office - (323) 221-0221 Fax - (323) 227-8733
CHEMTREC Emergency phone number (24h):	(800) 424-9300 USA

SECTION II – HAZARDS IDENTIFICATION

GHS Classification:

Eye irritation – Category 2
Skin mild irritation –Category 3

GHS Label Elements:

Hazard pictograms/symbols



Signal word: WARNING

Hazard statement:

H320: Causes eye irritation.
H316: Cause mild skin irritation.
H303: May be harmful if swallowed.

Precautionary Statements:

Prevention

P262: Do not get in eyes, on skin, or on clothing.
P264: Wash all exposed external body areas thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection

Response

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
P302+P352: IF ON SKIN: Wash with plenty of water and soap.
P362+P364: Take off contaminated clothing and wash it before reuse.

Storage

P404: Store in a closed container.

Disposal

P501: Dispose of contents/container to be specified in accordance with regulation.

SECTION III – INFORMATION OF INGREDIENTS

IF PRESENT IARC, NTP AND OSHA CARCINOGENS AND CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.

Components	CAS #	WT%	PEL	TLV
Linear Alcohol Ethoxylate	68131-39-5	15-25	None	None

SECTION IV – FIRST AID MEASURES

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.

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. Get medical attention immediately.

Ingestion: Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms/acute and delayed: Aside from the information above, no additional symptoms and effects are anticipated.

SECTION V – FIRE FIGHTING MEASURES

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions: Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazard: No unusual fire or explosion hazards noted.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up:

This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into properly labeled containers. Following product recovery, flush area with water. Do not use water for cleanup.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

See Section 13, Disposal Considerations, for additional information.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SECTION VII – HANDLING AND STORAGE**Precautions for safe handling:**

Provide adequate ventilation. Do not get this material in contact with eyes. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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 the SDS).

SECTION VIII – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Biological limit values: No biological exposure limits noted for the ingredient(s).

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 protection

Hand protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other protection: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations:

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Physical State	Liquid.
Color	Clear Colorless
Odor	Characteristic
Odor Threshold	No data available
pH (1% aqueous solution)	8.00-9.00 <i>ASTM E70</i>
Melting Point	Not applicable
Freezing Point	See Pour Point
Boiling Point (760 mmHg)	Decomposes prior to boiling
Flash Point - Closed Cup	288 °C (550 °F) <i>ASTM D93</i>
Flash Point - Open Cup	244 °C (471 °F) <i>ASTM D92</i>
Evaporation Rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	Not applicable
Flammable Limits In Air:	Lower: No data available Upper: No data available
Vapor Pressure	< 0.01 mm Hg <i>Estimated.</i>

Vapor Density (air = 1)	>1 <i>Estimated.</i>
Specific Gravity (H2O = 1)	1.026 20 °C/20 °C <i>Calculated</i>
Solubility in water	Complete
Partition coefficient, n-octanol/ water (log Pow)	No data available
Auto ignition Temperature	No data available
Decomposition temperature	No data available
Kinematic Viscosity	51 cSt @ 40°C ASTM D445
Explosive properties	No
Oxidizing Properties	No
Density (lbs/gal)	8.53
Pour point	16 °C (61 °F) ASTM D97

SECTION X – STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Exposure to elevated temperatures can cause product to decompose.

Incompatible materials: Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION XI – TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: No adverse effects due to inhalation are expected.

Skin contact: No adverse effects due to skin contact are expected.

Eye contact: Causes serious eye damage.

Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics:

May irritate skin. Severe eye irritation. Can cause eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects:

Acute toxicity

Acute Dermal Toxicity: Prolonged skin contact is unlikely to result in absorption of harmful amounts. Typical for this family of materials:

	<u>Ingredient</u>	<u>Species</u>	<u>Test Results</u>
LD50	Linear Alcohol Ethoxylate	Rat	> 2000 mg/kg

Acute Oral Toxicity: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Typical for this family of materials:

<u>Ingredient</u>	<u>Species</u>	<u>Test Results</u>
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LD50 Linear Alcohol Ethoxylate Rat >2000 mg/kg

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation. Repeated exposure may cause skin dryness or cracking

Serious eye damage/eye irritation: May cause moderate eye irritation. May cause corneal injury.

Respiratory or skin sensitization

Respiratory sensitization: Not a respiratory sensitizer.

Skin sensitization: This product is not expected to cause skin sensitization.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity: Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not regulated.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure: Not classified.

Specific target organ toxicity - repeated exposure: Not classified.

Aspiration hazard: Not applicable.

SECTION XII- ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity: EC50, water flea Daphnia magna, static, 48 hr.: 36.6 mg/l

Toxicity to Algae/Aquatic Plant: LC50/EC50 between 10 and 100mg/L in the most sensitive species tested. For this family of materials: ErC50, Desmodesmus subspicatus (green algae) , 72h: Growth rate inhibition, 31.9 - 97.7 mg/l

Persistence and degradability: For this family of materials: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. 10-days window - Not applicable.

Biodegradation: > 60 %

Exposure Time: 28 d

Method: OECD 301F Test GUIDELINE 301F or Equivalent

Bio accumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Disposal instructions: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device. Waste water treatment system.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

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 (See: Disposal instructions).

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.

SECTION XIV- TRANSPORT INFORMATION

DOT Not regulated as dangerous goods.
IMDG Not regulated as dangerous goods.
ICAO/IATA Not regulated as dangerous goods.

SECTION XV- REGULATORY INFORMATION

US Federal Regulation: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA Section 12(b) Export Notification Listed (40 CFR 707):

Not Regulated

CERCLA Hazardous Substance List (40 CFR 302.4):

Listed

SARA 304 Emergency release notification:

Not Regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes. Acute Health Hazard.

SARA 313 (TRI reporting)

Not regulated.

US State Regulations

US California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US Pennsylvania Worker and Community Right-To-Know Law

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

International Inventories

Country(s) or region	Inventory Name	On inventory(yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A " Yes " indicates that all the components of this product comply with the inventory requirements administered by the governing country.

SECTION XVI- OTHER INFORMATION

Hazard Rating System

NFPA	Health	Fire	Reactivity
	1	0	0

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THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO NORCHEM CORPORATION. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. NORCHEM CORPORATION MAKES NO WARRANTY OF MERCHANT ABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES.