



MATERIAL SAFETY DATA SHEET

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XLErate

1. Identification

Product Name: XLErate

Product ID: Release Agent

Product Type: Nonionic Surfactant

Chemical Family: Coupling Blend

Recommended Use: Upon application promotes improvement of desirable characteristics in soils and plants.

Restrictions on Use: Use only as directed on label. Keep out of reach of children.

2. Hazard(s) Identification

This product does not contain hazardous or carcinogenic ingredients as currently defined by OSHA Regulations. Classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

Hazard	Category	Symbol	Signal Word, Hazard Statement, and Health Symptom
Oral Ingestion	5		May cause nausea or cramps if swallowed.
Skin contact	5		May cause dry or irritated skin.
Eye Contact	5		May cause dry or irritated eyes.
Inhalation	5		May irritate mucous membranes if inhaled.
Health Effects	5		Acute effects are temporary. No chronic effects expected.

Flammability Non-flammable

Hazard Statements Acute effects are temporary. No chronic effects expected.

Precautionary Statements Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth with plenty of water. Drink 1 or 2 glasses of water.

Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting.

IF ON SKIN: Rinse with plenty of water. Replace saturated clothing after initial rinsing and rinse bare skin. If skin irritation occurs or persists, get medical advice/attention

Precautionary Statements - Storage: KEEP OUT OF REACH OF CHILDREN. Store in a cool dry place. Keep container closed when not in use. Wear proper protective clothing and equipment when handling this product.

Shelf Life: 60 Months

Precautionary Statements - Disposal: Contain large spills and pump to recover. Small spills can be mopped up. Flush contaminated area with water. Dispose of in accordance with all Federal, State and Local regulations. Remove any ignition sources.

Hazards not otherwise classified (HNOC): None

3. Composition/Information on Ingredients

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
COUPLING BLEND	Surfactant	Yes	NOT APPLICABLE	100

4. First-aid Measures

First aid measures for different exposure routes

Eye contact - Rinse with plenty of water. Get medical attention if irritation persists.

Skin contact - Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion - Rinse mouth. Drink 1 or 2 glasses of water. Do NOT induce vomiting.
Get medical attention immediately if symptoms occur.

Inhalation - Move to fresh air. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed - None under normal use conditions.

Indication of immediate medical attention and special treatment needed, if necessary:

Notes to Physician - Treat symptomatically.

5. Fire-fighting Measures

Suitable extinguishing media - Product is not combustible nor an accelerant. Decisions on all fire suppression methods, such as dry chemical, CO₂, alcohol-resistant foam, or water spray suitable for and commonly used as extinguishing media, must be based on the primary fuel source of the fire. The product does not combine in a chemical chain reaction as defined by the Fire Tetrahedron.

Unsuitable Extinguishing Media - None.

Special protective equipment for fire-fighters - As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Special hazards - None known. Product is not combustible nor an accelerant.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions - Ventilate area of any spill and curtail use of ignition sources as required by any additional combustible materials near the spilled product.

Emergency responder advice - Use personal protective equipment as required by clean up policies and dictated by the material being cleaned. See personal precaution note above.

Methods and materials for containment and cleaning up

Methods for containment - Contain with cloth or absorbent materials to prevent spreading of liquid to a larger area. Direct fluid to a floor drain, where available and possible, while mobilizing for clean up procedures.

- SAFETY NOTE: Contaminated floor surfaces may be slippery and pose a risk of slip and fall. Avoid tracking spilled fluid by footprint. Thoroughly rinse contaminated footwear with water to prevent loss of traction. After containing spilled product, remove excess fluid using cloth or absorbent materials. The decision on what materials to use to remove excess fluid is dependent upon the floor covering on which the product was spilled and the size of the spill. For small spills in a clean up operations area, wipe up excess fluid with dry, cloth towels that can be laundered. After excess fluid is removed, wet mop the affected area several times using plenty of water. Once the floor surface appears to be clean and no longer presents a risk of slip and fall, dry the floor with cloth towels. All cleaning towels, mop heads, and cloth materials used to remove the spilled product can be laundered and returned to service.
- SAFETY NOTE: Contaminated floor surfaces may be slippery and pose a risk of slip and fall. Avoid tracking spilled fluid by footprint. Thoroughly rinse contaminated footwear with water to prevent loss of traction. For all events, containment of the spill is the first response. Once contained, the condition and surface of the area affected by the spill determines the rest of the spill response. For industrial flooring devoid of heavy grease, oil, and dirt, such as a large equipment cleaning operation interior area, spilled product can be directed to a floor drain that terminates in a standard waste water drain line. Rinse the floor with plenty of water while vigorously wet mopping the surface to remove product trapped in nooks and crannies of the floor covering. Once the floor surface appears to be clean and no longer presents a risk of slip and fall, dry the floor with cloth towels and/or fans. All cleaning towels, mop heads, and other cloth materials used to remove the spilled product can be laundered and returned to service.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling

- Use personal protective equipment as required.
- Keep container closed when not in use.
- Never return spills to original containers for re-use.
- Keep out of the reach of children.
- Do not mix with other cleaning agents.
- Do not release in an uncontrolled manner. Use only approved disposal methods as directed by published operating policies that conform to all local, state, and federal environmental regulations.
- General hygiene practices apply at all times. Eating, drinking, and smoking in areas where this product is used or stored is prohibited.

Storage Conditions

Incompatible products

- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Standard warehouse conditions are ideal.
- Prolonged storage in open sunlight is not advised.
- Avoid storage temperature conditions colder than 40°F or warmer than 110°F.
- **Use with other additives is not advised as it may cause unpredictable and undesired results.**

8. Exposure Controls/Personal Protection

Exposure controls

- Threshold Limit Value** - None. TLVs are not established for nontoxic products.
- Ventilation** - Use with adequate ventilation in accordance with workplace policies.
- Respiratory Protection** - None needed when used as directed.
- Eye Protection** - Safety glasses, goggles, or other eye protection in accordance with workplace policies.
- Hand Protection** - Latex or neoprene gloves recommended.

NOTE: HAZMAT personal protective equipment and protective clothing requirements are based on requirements of the contamination to which XLErate is being applied. Always default to the requirement for the most hazardous material in the work site being treated with XLErate.

- Engineering Measures**
- Distribution, Workplace and Household Settings:** Ensure adequate ventilation
- Product Manufacturing Plant or Commercial Operational Use Site:** Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment

- Eye Protection**
- Distribution, Workplace and Household Settings:** No special protective equipment required
- Product Manufacturing Plant or Commercial Operational Use Site:** Use appropriate eye protection in accordance with workplace policies.
- Hand Protection**
- Distribution, Workplace and Household Settings:** For sensitive skin or prolonged use, wear gloves
- Product Manufacturing Plant or Commercial Operational Use Site:** Protective gloves in accordance with workplace policies.
- Skin and Body Protection**
- Distribution, Workplace and Household Settings:** No special protective equipment required
- Product Manufacturing Plant or Commercial Operational Use Site:** Wear suitable work clothing in accordance with workplace policies.
- Respiratory Protection**
- Distribution, Workplace and Household Settings:** No special protective equipment required
- Product Manufacturing Plant or Commercial Operational Use Site:** In case of insufficient ventilation, wear suitable respiratory equipment in accordance with workplace policies.

9. Physical and Chemical Properties

Property Name	Description
Appearance	Clear liquid, pale yellow to amber in color
Upper/lower flammability or explosive limits;	UEL (%) - None LEL (%) - None
Odor	No measurable or discernible odor
Vapor pressure	<0.01Torr @ 15°C
Odor threshold	Not determined
Vapor density	Not determined
pH	7 - 8.1
Relative density	8.3 lbs/Gallon
Melting point/freezing point	Not determined
Solubility(ies)	Completely soluble in both fresh or salt water
Initial boiling point	Greater than 200°F
Flash point	Greater than 200°F
Evaporation rate	Less than water
Flammability (all phases)	Non-flammable and non-combustible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not applicable; product is non-flammable
Decomposition temperature	Not determined
Viscosity	Pours easily, but is more viscous than water. Value not determined.

10. Stability and Reactivity

Reactivity	None under normal use conditions.
Stability	Stable under normal conditions.
Hazardous polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
Conditions to Avoid	None under normal processing.
Materials to avoid	None in particular.
Hazardous Decomposition Products	None under normal use.

11. Toxicological Information

Product Information

Information on likely routes of exposure

Inhalation	No known effect.
Skin contact	May be temporarily irritating to skin.
Ingestion	May cause temporary discomfort if swallowed.
Eye contact	May cause temporary eye irritation, but will not permanently injure eye tissue.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity	May cause temporary discomfort if swallowed.
Skin corrosion/irritation	May be temporarily irritating to skin.
Serious eye damage/eye irritation	May cause temporary eye irritation.
Skin sensitization	No known effect.
Respiratory sensitization	No known effect.
Germ cell mutagenicity	No known effect.
Neurological Effects	No known effect.
Reproductive toxicity	No known effect.
Developmental toxicity	No known effect.
Teratogenicity	No known effect.
STOT - single exposure	No known effect.
STOT - repeated exposure	No known effect.
Target Organ Effects	No known effect.
Aspiration hazard	No known effect.
Carcinogenicity	No known effect.

This product does not contain hazardous or carcinogenic ingredients as currently defined by OSHA Regulations.

Component Information

The proprietary component information is a trade secret. As such, the list of components is not required to be detailed here.

Toxicity testing was conducted using the FFT proprietary formula. Using *Ceriodaphnia dubia* as one test subject, the 96 hour LC50 was 49.2ppm. Using *Pimephales promelas*, the 96 hour LC50 was 46.6ppm. No acute or chronic inhalation, ingestion, or dermal toxicity test results are directly available for this product. There are no alternate, suitable generic, or similar formulary products with reported test results available for comparison. Based on the toxicity test results of the proprietary formulary, XLErate is a nontoxic, non-hazardous product when used as directed.

12. Ecological Information

Ecotoxicity	The product is not expected to be hazardous to the environment.
Persistence and degradability	This product will biodegrade within 12 - 96 hours depending on environmental conditions and disposal methods employed by the user.
Bioaccumulative potential	This product will not accumulate in the environment.
Mobility	This product is water soluble. As such, it will travel with moving water until fully biodegraded.
Other adverse effects	None.

13. Disposal Considerations

Waste treatment

Waste from Residues / Unused Products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
California Hazardous Waste Codes (non-household setting)	331

14. Transportation Information

<u>DOT</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>IATA</u>	Not regulated

15. Regulatory Information

U.S. Federal, State and International Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CERCLA

This material, as supplied, does not contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

California Proposition 65 This product is not subject to warning labeling under California Proposition 65.

U.S. State Regulations (RTK) No components of the proprietary formula are found on any US State Regulation for Right-To-Know list.

Reference: List of Lists, EPA 550-B-12-003, Consolidated List of Chemicals Subject to EPCRA, CERCLA, and Section 112(r) of the Clean Air Act. Published October 2012 by the Office of Solid Waste and Emergency Response.

International Inventories

United States

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada

This product is in compliance with CEPA for import by FFT Technologies, LLC.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CEPA - Canadian Environmental Protection Act

16. Other Information

Issuing Date: 20 February 2017

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Notices and Disclaimers

Ingredients in this product are not hazardous or carcinogenic as defined in 29CFR 1910.1200. The proprietary ingredients of this product are protected by United States Patent 8,092,708-B2. Information on proprietary materials is available in 29CFR 1910.1200(i)(1). This product is made from renewable resources and is completely biodegradable. By several industry definitions, all of the FOG Free Technology products are considered to meet the standard for being a Green Product.

Information provided herein is correct to the best of our knowledge, information and belief at the date of its publication. Information given is designed as a guide for safe handling, use, processing, storage, transportation, disposal and release. It is not considered a warranty or quality specification. The information relates only to the specific material designated. The information is not valid for such material used in combination with any other materials or in any process, unless specified in the text.

===== **End of the XLERATE Safety Data Sheet** =====