

# SAFETY DATA SHEET

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** FLEX Emulsifying LT Degreaser

**OTHER MEANS OF IDENTIFICATION:** Not applicable.

**GENERAL USE:** For professional laundry use only.

**PRODUCT DESCRIPTION:** Laundry Additive

### MANUFACTURER

R. R. Street & Co. Inc.

184 Shuman Boulevard/Suite 150

Naperville, IL 60563

**Product Information:** 800-323-7206 (USA  
& Canada only) or 630-416-4244

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**Medical Emergency:** 866-303-6947 (USA & Canada only) or 651-632-9272

**Transportation Emergency:** 800-424-9300 (USA & Canada only) or 703-527-3887

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## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Skin Corrosion/Irritation: Category 2

Sensitization – Skin: Category 1

Eye Damage/Irritation: Category 1

Flammable Liquids: Category 4

### GHS LABEL ELEMENTS

**Symbol(s):**



**Signal Word:** Danger

### Hazard Statements:

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H318 – Causes serious eye damage.

H227 – Combustible liquid.

### Precautionary Statements:

P210 – Keep away from heat/sparks/open flames/hot surfaces - No smoking.

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 – Wash skin thoroughly after handling.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 – IF ON SKIN: Wash with plenty of soap and water.

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.

P333 + P313 – If skin irritation or rash occurs: Get medical advice/ attention.

P362+P364 – Take off contaminated clothing and wash before reuse.

P370+P378 – In case of fire: Use water fog or fine spray, foam, carbon dioxide extinguishers, or dry chemical extinguishers for extinction.

P403+ P235 – Store in a well-ventilated place. Keep cool.

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

**Other Hazards:** Not available.

**Unknown Acute Toxicity:** Not applicable.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

The specific identity of one or more components of this product are withheld as a trade secret.

| <u>Chemical Name</u> | <u>Wt.%</u> | <u>CAS#</u> |
|----------------------|-------------|-------------|
| 2-Butoxyethanol      | 15 - 25     | 111-76-2    |
| Trade Secret #1      | -           | -           |
| Trade Secret #2      | -           | -           |
| Terpene hydrocarbons | 1 - 5       | 5989-27-5   |
| Trade Secret #3      | -           | -           |
| Trade Secret #4      | -           | -           |

**COMMENTS:** None.

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Remove contaminated clothing. Wash with water. Consult a physician if irritation persists.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove affected person to fresh air. If not breathing, give artificial respiration. Get medical attention.

#### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Irritation, discomfort, redness.

**SKIN:** Redness, drying.

**SKIN ABSORPTION:** Insufficient data available.

**INGESTION:** May cause headache, nausea, vomiting.

**INHALATION:** May cause headache, respiratory irritation.

**ADDITIONAL INFORMATION:** After emergency actions, call the emergency medical information number on page 1 or a physician immediately.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** NFPA Class IIIA

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam, water spray or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide.

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

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## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Clean up spill with absorbent material and water, if necessary.

**LARGE SPILL:** Extinguish all sources of ignition. Avoid breathing vapor. Contain spill. Clean up spills immediately with absorbent material, observing precautions in the Exposure Controls/Personal Protection section (see section 8). Place absorbed material in closed containers for disposal (see section 13). Do not flush to sewer. Avoid contamination of ground and surface waters.

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## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep away from heat, sparks, and flame.

**HANDLING:** Follow all SDS/label precautions even after container is emptied because it may retain product residues.

**STORAGE:** Store in labeled, tightly sealed containers in a cool, well-ventilated area.

**ELECTROSTATIC ACCUMULATION HAZARD:** Ground and bond containers when transferring material.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

#### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

|                      |             | <u>EXPOSURE LIMITS</u> |                         |                   |                         |                     |                         |
|----------------------|-------------|------------------------|-------------------------|-------------------|-------------------------|---------------------|-------------------------|
|                      |             | <u>OSHA PEL</u>        |                         | <u>ACGIH TLV</u>  |                         | <u>Supplier OEL</u> |                         |
|                      |             | <u>ppm</u>             | <u>mg/m<sup>3</sup></u> | <u>ppm</u>        | <u>mg/m<sup>3</sup></u> | <u>ppm</u>          | <u>mg/m<sup>3</sup></u> |
| 2-Butoxyethanol      | <b>TWA</b>  | 50                     |                         | 25 <sup>[1]</sup> |                         |                     |                         |
|                      | <b>STEL</b> | NE <sup>[2]</sup>      |                         | NE                |                         |                     |                         |
| Trade Secret #1      | <b>TWA</b>  | NE                     |                         | NE                |                         |                     |                         |
|                      | <b>STEL</b> | NE                     |                         | NE                |                         |                     |                         |
| Trade Secret #2      | <b>TWA</b>  | NE                     |                         | NE                |                         |                     |                         |
|                      | <b>STEL</b> | NE                     |                         | NE                |                         |                     |                         |
| Terpene hydrocarbons | <b>TWA</b>  | 100                    |                         | NE                |                         |                     |                         |
|                      | <b>STEL</b> | NE                     |                         | NE                |                         |                     |                         |
| Trade Secret #3      | <b>TWA</b>  | NE                     |                         | NE                |                         |                     |                         |
|                      | <b>STEL</b> | NE                     |                         | NE                |                         |                     |                         |
| Trade Secret #4      | <b>TWA</b>  | NE                     |                         | NE                |                         |                     |                         |
|                      | <b>STEL</b> | NE                     |                         | NE                |                         |                     |                         |

### TABLE FOOTNOTES

1. A3: Confirmed animal carcinogen with unknown relevance to humans.
2. NE=Not established.

**The specific identity of one or more components of this product are withheld as a trade secret.**

**ENGINEERING CONTROLS:** Not applicable.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses with side shields, or goggles.

**SKIN:** Neoprene or Barrier™ gloves.

**RESPIRATORY:** None required under normal conditions.

**PROTECTIVE CLOTHING:** Where contact is likely, wear the appropriate chemical resistant equipment, which depending on circumstances may include gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling. Do not eat or drink in work area.

**OTHER USE PRECAUTIONS:** Have eye wash station available. Do not wear contact lenses without eye protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear.

**PHYSICAL STATE:** Liquid.

**COLOR:** Light yellow.

**ODOR:** Citrus.

**ODOR THRESHOLD:** No data available.

**pH:** 6.5-7.5 (20:80 in IPA/H<sub>2</sub>O Soln.)

**FREEZING POINT:** No data available.

**INITIAL BOILING POINT:** No data available.

**FLASHPOINT:** 62°C (144°F) (TCC)

**EVAPORATION RATE:** No data available.

**FLAMMABILITY (Solid, Gas):** Not applicable, this product is a liquid at room temperature.

**FLAMMABLE LIMITS:** No data available.

**VAPOR PRESSURE:** No data available.

**VAPOR DENSITY:** No data available.

**RELATIVE DENSITY:** 0.98

**SOLUBILITY IN WATER:** Forms emulsion.

**PARTITION COEFFICIENT (Log K<sub>ow</sub>):** No data available.

**AUTOIGNITION TEMPERATURE:** No data available.

**DECOMPOSITION TEMPERATURE:** No data available.

**VISCOSITY:** 18 sec, Zahn #2

**PERCENT VOLATILE:** ~85

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## 10. STABILITY AND REACTIVITY

**REACTIVITY:** No.

**CHEMICAL STABILITY:** Stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Polymerization will not occur.

**CONDITIONS TO AVOID:** High heat.

**INCOMPATIBLE MATERIALS:** Strong oxidizers, strong alkalis.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide, carbon monoxide and various organic compounds. May form unstable peroxides.

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## 11. TOXICOLOGICAL INFORMATION

**ROUTES OF EXPOSURE:** Inhalation, skin.

**ACUTE TOXICITY (ATE)**

**DERMAL LD<sub>50</sub>:** > 2,000 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** > 2,000 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** Insufficient data available.

**CHRONIC TOXICITY**

**TARGET ORGANS:** A component of this product has caused hemolysis of blood in rats; not considered relevant to humans. Components of this product caused liver, and/or kidney effects in lab animals; the relevance to humans is unknown. Components of this product may affect the central nervous system

**SENSITIZATION:** Insufficient data available.

#### **CARCINOGENICITY**

**IARC:** A component of this product is classified as Group 3 (Not classifiable).

**NTP:** Not listed as a carcinogen.

**OSHA:** Not listed as a carcinogen.

**OTHER:** ACGIH A3: A component of this product is classified as A3 (Confirmed animal carcinogen with unknown relevance to humans).

**OTHER:** No data available.

**REPRODUCTIVE EFFECTS:** A component of this product showed some fetotoxicity in lab animals exposed to high concentrations.

**MUTAGENICITY:** Insufficient data available.

**SYNERGISTIC MATERIALS:** No data available.

#### **POTENTIAL HEALTH EFFECTS**

**EYES:** Causes serious eye damage.

**SKIN:** Prolonged or repeated contact may cause dermatitis.

**SKIN ABSORPTION:** Insufficient data available.

**INGESTION:** May be harmful if swallowed. May affect blood, kidney, liver, central nervous system.

**ASPIRATION HAZARD:** There is insufficient data available to classify this product as an aspiration hazard.

**INHALATION:** May be harmful if inhaled.

**MEDICAL CONDITIONS AGGRAVATED:** Eye disorders.

**GENERAL COMMENTS:** Refer to Section 2 for additional information on potential health effects.

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## **12. ECOLOGICAL INFORMATION**

**ECOTOXICITY:** A component of this product has moderate aquatic toxicity.

**PERSISTENCE AND DEGRADABILITY:** All components of this product are readily biodegradable.

**BIOACCUMULATIVE POTENTIAL:** Insufficient data available.

**MOBILITY IN SOIL:** Insufficient data available.

**OTHER ADVERSE EFFECTS:** No data available.

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## **13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

**EMPTY CONTAINER:** Not applicable.

**RCRA/EPA WASTE INFORMATION:** Contains no material listed by RCRA as a hazardous waste.

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## **14. TRANSPORT INFORMATION**

### **DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not regulated if shipped by ground.

**OTHER SHIPPING INFORMATION:** Not applicable.

### **CANADA TRANSPORT OF DANGEROUS GOODS**

**PROPER SHIPPING NAME:** Not regulated if shipped by ground.

**OTHER SHIPPING INFORMATION:** Not applicable.

**AIR (ICAO/IATA)****PROPER SHIPPING NAME:** Combustible Liquid, NOS**PRIMARY HAZARD CLASS/DIVISION:** Combustible Liquid**UN/NA NUMBER:** UN1993**PACKING GROUP:** III**LABEL:** Consult applicable regulations governing air shipments.**PLACARDS:** Consult applicable regulations governing air shipments.**IATA NOTE:** Consult IATA for quantity limitations.**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:****FIRE:** Yes. **PRESSURE GENERATING:** No. **REACTIVITY:** No. **ACUTE:** Yes.  
**CHRONIC:** Yes.**313 REPORTABLE INGREDIENTS:** 2-Butoxyethanol is reportable.**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA RQ:** Not applicable.**REPORTABLE SPILL QUANTITY:** Not applicable.**RCRA STATUS:** See section 13.**MEXICO**

Not regulated for ground transportation.

**STATE REGULATIONS****MASSACHUSETTS**

Contains one or more substances regulated by the Massachusetts Substance List.

**CALIFORNIA****PROPOSITION 65 STATEMENT:** This product contains no ingredients known to the state of California to cause cancer, birth defects, or other reproductive harm.**16. OTHER INFORMATION**

| <b>HMIS RATINGS</b>  |   |
|----------------------|---|
| HEALTH:              | 2 |
| FLAMMABILITY:        | 2 |
| REACTIVITY:          | 0 |
| PERSONAL PROTECTION: | B |

**NFPA RATINGS**