



# Safety Data Sheet

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## Lyden Fuel Force Tank Boost Fuel System Concentrate Treatment

SDS Number: FF254

### 1 PRODUCT AND COMPANY INFORMATION

Product Name: Lyden Fuel Force Tank Boost Fuel System Concentrate Treatment  
Revision Date: 03/06/2025  
SDS Number: FF254  
Common Name: Fuel Additive  
CAS Number: Blend  
Product Code: FF254  
Synonyms: Tank boost fuel additive

#### Company Identification:

*Manufactured for:*  
LYDEN OIL COMPANY  
30692 Tracy Rd.  
Walbridge, OH 43462  
[www.lydenoil.com](http://www.lydenoil.com)

For Product Information: 1-800-245-9336  
For Emergencies: 1-800-424-9300 (CHEMTREC)

### 2 HAZARDS IDENTIFICATION



Signal Word:

**WARNING**

Hazard Classes/Categories:

Flammable liquid, Category 4.  
Acute toxicity, Oral category 4.  
Acute toxicity, Dermal category 4.  
Acute toxicity, Inhalation category 4.



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Skin irritant, Category 2.  
Serious eye irritation, Category 2A.

### Hazard Statement(s):

H227: Combustible liquid.  
H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H332: Harmful if inhaled.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.

### Precaution Statement(s):

P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P103: Read label before use.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264: Wash thoroughly after handling.  
P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P270: Do not eat, drink or smoke when using this product.  
P363: Wash contaminated clothing before reuse.  
P312: Call a POISON CENTER/ doctor if you feel unwell.  
P403+235: Store in a well ventilated place. Keep cool.  
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

### Other Hazard Statement(s):

-NFPA Ratings:  
Health = 2  
Fire = 2  
Reactivity = 0



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### 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
2-butoxyethanol	111-76-2	50-100
Oleic acid, pure	112-80-1	1-2.5
2-ethylhexan-1-ol	104-76-7	1-2.5

\*Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### 4 FIRST AID MEASURES

#### Description of First Aid Measures:

##### Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim has difficulty breathing or is unresponsive, give oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

##### Skin Contact:

Flush skin with water, wash with soap and water. Remove contaminated clothing. Do not reuse clothing until cleaned. Get medical attention if skin irritation occurs or if otherwise needed. Discard leather articles saturated with the material.

##### Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

##### Ingestion:

DO NOT induce vomiting. Obtain medical attention.



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### Symptoms and Effects, both acute and delayed:

-Most important symptoms and effects, both acute and delayed:

Headache

Unconsciousness

Nausea

May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard.

Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. Harmful if swallowed. May be fatal if swallowed and enters airways. Swallowing a small quantity of this material will result in serious health hazard.

May cause respiratory tract irritation.

Blurred vision

### Recommended Actions:

Treat symptomatically. Call a doctor or poison control center for guidance.

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## FIRE FIGHTING MEASURES

### Recommended Fire-Extinguishing Equipment:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

### Possible Hazards During a Fire:

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.



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### Recommendations to Firefighters:

Proper protective equipment including breathing apparatus.

## 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions:

Avoid breathing vapors.  
Personal protective equipment must be worn.  
Avoid contact with skin, eyes or clothing.  
Remove persons from danger area.

### Emergency Procedures:

Contain spilled material, collect in suitable and properly labeled containers.

### Environmental Precautions:

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.

### Cleanup Procedures:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

## 7 HANDLING AND STORAGE

### Handling Precautions:

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Personal protective equipment must be worn.  
Avoid contact with skin, eyes or clothing.  
Keep away from ignition sources and high temperature materials.



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### Storage Requirements:

Store at temperatures not exceeding 49 °C/120°F.  
Keep receptacle tightly sealed.  
Keep from freezing.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limits:

-111-76-2 2-butoxyethanol (50-100%)

PEL TWA: 240 mg/m<sup>3</sup>, 50 ppm

Skin

REL TWA: 24 mg/m<sup>3</sup>, 5 ppm

Skin

TLV TWA: 97 mg/m<sup>3</sup>, 20 ppm

BEI

-111-76-2 2-butoxyethanol (50-100%)

BEI 200 mg/g creatinine

Medium: urine

Time: end of shift

Parameter: Butoxyacetic acid with hydrolysis

#### Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

#### Personal Protective Equipment:

-General protective and hygienic measures:  
Wash hands before breaks and at the end of work.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Avoid contact with the eyes and skin. Wear gloves and goggles.  
-Breathing equipment:  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device only when aerosol or mist is formed.



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### 9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Physical State:	Liquid
Odor:	Sweet
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	-70.4° C / -95° F
Boiling Point:	171° C / 340° F
Boiling Range:	Data not available
Flash Point:	65° C / 149° F
Evaporation Rate:	Data not available
Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	1 mmHg at 20° C
Vapor Density:	Data not available
Relative Density:	0.899 g/cm <sup>3</sup> (7.502 lbs/gal)
Solubilities:	In water: 1 g/L
Partition Coefficient:	Data not available
Auto-Ignition Temperature:	Data not available
Decomposition Temperature:	Data not available
Viscosity:	Data not available

### 10 STABILITY AND REACTIVITY

<u>Stability:</u>	Stable under normal conditions.
<u>Reactivity:</u>	Not reactive under normal conditions.
<u>Conditions to Avoid:</u>	Extreme temperature, sparks, open flame, and direct sunlight.
<u>Hazardous Reactions:</u>	Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.
<u>Incompatible Materials:</u>	No further relevant information available.



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### Decomposition Products:

Oxides of carbon.

## 11 TOXICOLOGICAL INFORMATION

### Routes of Exposure:

Inhalation, skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

### Exposure Effects:

- On the skin: Irritant to skin and mucous membranes.
- On the eye: Irritating effect.
- Inhalation: May cause respiratory tract irritation.
- Ingestion: May cause gastrointestinal irritation, nausea, vomiting, diarrhea.

### Measures of Toxicity:

-Fuel Concentrate

Oral LD50 487 mg/kg (rat) (ATE)  
Dermal LD50 415 mg/kg (ATE)  
Inhalative LC50/4 h 2.29 mg/l (rat) (ATE)

-111-76-2 2-butoxyethanol

Oral LD50 470 mg/kg (rat)  
Dermal LD50 400 mg/kg (rab)  
Inhalative LC50/4 h 2.2 mg/l (rat)

-112-80-1 oleic acid, pure

Oral LD50 74000 mg/kg (rat)

-104-76-7 2-ethylhexan-1-ol

Oral LD50 2049 mg/kg (rat)  
Dermal LD50 1970 mg/kg (rabbit)

### Carcinogenic/Mutagenic Precautions:

2-butoxyethanol: Carcinogenic category 3 (IARC).





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### 12 ECOLOGICAL INFORMATION

Ecological Precautions:

Do not allow product to reach ground water, water course or sewage system.

Ecological Effects:

- Aquatic toxicity:

-111-76-2 2-butoxyethanol

EC50 (48 h) >1000 mg/L (daphnia)

LC50 (96 h) (static) 1490 mg/l (Lepomis macrochirus)

-112-80-1 oleic acid, pure

LC50 (96 h) 205 mg/l (fish)

### 13 DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of waste material in accordance with all local, state, and federal requirements.

Disposal Containers:

Use properly approved container for disposal.

Special Precautions:

Do not dispose of with household garbage.  
Do not flush to surface waters or drains.

### 14 TRANSPORT INFORMATION

UN Number:

UN1993

UN Shipping Name:

COMBUSTIBLE LIQUID, N.O.S

Transport Hazard Class:

Not Regulated

Packing Group:

III

Environmental Hazards:

None



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Bulk Transport Guidance:

Data not available

Special Precautions:

None

### 15 REGULATORY INFORMATION

This material and all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substances Control Act.

### 16 OTHER INFORMATION

Last Revision Date: 03/06/2025

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