



# Safety Data Sheet

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## Diesel Force Ultimate 10 Fuel Treatment

SDS Number: DF661, DF662, DF665, DF667, DF669

### 1 PRODUCT AND COMPANY INFORMATION

Product Name: Diesel Force Ultimate 10 Fuel Treatment  
Revision Date: 04/15/2017  
SDS Number: DF661, DF662, DF665, DF667, DF669  
Common Name: Diesel fuel additive  
CAS Number: Blend  
Product Code: DF661, DF662, DF665, DF667, DF669  
Synonyms: N/A

#### Company Identification:

*Supplier:*  
LYDEN OIL COMPANY  
30682 Tracy Road  
Walbridge, OH 43465  
www.lydenoil.com

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

### 2 HAZARDS IDENTIFICATION



Signal Word:

**DANGER**



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### Hazard Classes/Categories:

Combustible liquid , Category 4.  
Acute toxicity, Oral category 4.  
Acute toxicity, Dermal category 4.  
Acute toxicity, Inhalation category 4.  
Skin irritant, Category 2.  
Serious eye irritation, Category 2A.  
Carcinogen, Category 2.  
Aspiration hazard, Category 1.  
Hazardous to the aquatic environment, Category acute 2.  
Hazardous to the aquatic environment, Category chronic 2.

### Hazard Statement(s):

Combustible liquid.  
Harmful if swallowed.  
Harmful in contact with skin.  
Harmful if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of causing cancer.  
May be fatal if swallowed and enters airways.  
Toxic to aquatic life.  
Toxic to aquatic life with long-lasting effects.

### Precaution Statement(s):

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Obtain special instructions before use.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Wear protective gloves / eye protection.  
Avoid release to the environment.  
IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation occurs: Get medical advice/attention.  
Do NOT induce vomiting.  
Store locked up.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local/regional/national/international regulations.



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Other Hazard Statement(s):

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

**3** COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

*Mixture of the substances listed below with nonhazardous additions.*

Chemical Name	CAS Number	Percentage
2-ethylhexyl nitrate	27247-96-7	25-50
2-butoxyethanol	111-76-2	10-<25
Solvent naphtha (petroleum), heavy arom.	64742-94-5	10-<25
Fuels, diesel	68334-30-5	2.5-<10
Naphthalene	91-20-3	0.1-<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:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.

Skin Contact:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation continues, consult a doctor.

Eye Contact:

Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.



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Ingestion:

Do not induce vomiting; immediately call for medical help.

Symptoms and Effects, both acute and delayed:

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

Headache

Dizziness

Disorientation

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.

- Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

Recommended Actions:

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

<b>5</b>	<b>FIRE FIGHTING MEASURES</b>
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Recommended Fire-Extinguishing Equipment:

Use dry powder, foam, or carbon dioxide fire extinguishers. Do NOT use water.

Possible Hazards During a Fire:

Hazardous combustion products may include: A complex mixture of airborne solid and liquid



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particulates and gases (smoke). Carbon monoxide.  
Unidentified organic and inorganic compounds.

### Recommendations to Firefighters:

Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Do not use a water jet.

## 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions:

Avoid eye contact. Avoid repeated or prolonged skin contact.  
Personal protective equipment must be worn.  
Avoid contact with skin, eyes or clothing. Keep unprotected persons away.

### 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. Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

### Cleanup Procedures:

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



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### 7 HANDLING AND STORAGE

#### Handling Precautions:

- Precautions for safe handling:  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- Information about protection against explosions and fires:  
Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.  
Keep respiratory protective device available.

#### Storage Requirements:

Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limits:

-111-76-2 2-butoxyethanol (10-20%):

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

-68334-30-5 Fuels, Diesel (2.5-10%):

TLV TWA: 100 mg/m<sup>3</sup>

Skin; BEI



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-91-20-3 Naphthalene (1-2.5%):

PEL TWA: 50 mg/m<sup>3</sup>, 10 ppm

REL STEL: 75 mg/m<sup>3</sup>, 15 ppm

TWA: 50 mg/m<sup>3</sup>, 10 ppm

TLV TWA: 52 mg/m<sup>3</sup>, 10 ppm

Skin; BEI

• Ingredients with biological limit values:

-111-76-2 2-butoxyethanol (10-20%):

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). Have an eye wash station near by.

### Personal Protective Equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Store protective clothing separately.

Avoid contact with the eyes and skin. Wear gloves and goggles.

- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.



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### 9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Dark
Physical State:	Liquid
Odor:	Petroleum
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	Data not available
Boiling Point:	171° C
Boiling Range:	Data not available
Flash Point:	72° C
Evaporation Rate:	Data not available
Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	1.2 hPa at 20° C
Vapor Density:	Data not available
Relative Density:	Data not available
Solubilities:	Not miscible or difficult to mix in water
Partition Coefficient:	Data not available
Auto-Ignition Temperature:	Data not available
Decomposition Temperature:	Data not available
Viscosity:	4.2 mm <sup>2</sup> /sec

### 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>	No known hazardous reactions.
<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 be fatal if swallowed and enter airways.

### Measures of Toxicity:

ATE (Acute Toxicity Estimates):

Oral LD50: 798 mg/kg  
Dermal LD50: 1270 mg/kg  
Inhalative LC50/4 h: 12.6 mg/l

1 11-76-2 2-butoxyethanol:

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

27247-96-7 2-ethylhexyl nitrate:

Oral LD50: 500 mg/kg (ATE)  
Dermal LD50: 1100 mg/kg (ATE)  
Inhalative LC50/4 h: 11 mg/l (ATE)



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91-20-3 naphthalene:

Oral LD50: 490 mg/kg (rat)

Dermal LD50: 5000 mg/kg (rat)

### Carcinogenic/Mutagenic Precautions:

2-butoxyethanol: Carcinogenic category 3 (IARC).

Naphthalene: Carcinogenic category 2B (IARC).

Fuels, diesel: Carcinogenic category 2B (IARC).

## 12 ECOLOGICAL INFORMATION

### Ecological Precautions:

Water hazard class 2 (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms.

### Ecological Effects:

111-76-2 2-butoxyethanol:

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

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

## 13 DISPOSAL CONSIDERATIONS

### Disposal Methods:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### Disposal Containers:

Use properly approved container for disposal.

### Special Precautions:

Do not flush to surface waters or drains.



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### 14 TRANSPORT INFORMATION

UN Number: UN3082  
UN Shipping Name: Environmentally hazardous substances, liquid, n.o.s.  
Transport Hazard Class: 9  
Packing Group: III

Environmental Hazards:

Product contains environmentally hazardous substances:  
naphthalene, 2-ethylhexyl nitrate

Bulk Transport Guidance:

Data not available

Special Precautions:

Data not available

### 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.

California Proposition 65 WARNING: This product contains measurable amounts of a chemical known to the State of California to cause cancer.

### 16 OTHER INFORMATION

Last Revision Date: 04/15/2017

*The information contained in this Safety Data Sheet (SDS) relates only to the specific material designated. The supplier assumes no legal responsibility of the use or reliance upon this data. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of the supplier.*