



Safety Data Sheet

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Fuel Force Top End Cleaner

SDS Number: 46-10

1 PRODUCT AND COMPANY INFORMATION

Product Name: Fuel Force Top End Cleaner
Revision Date: 05/18/2020
SDS Number: 46-10
Common Name: Engine Cleaner
CAS Number: Blend
Product Code: FF259
Synonyms: Water Based Engine Cleaner

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:

WARNING

Hazard Classes/Categories:

Skin sensitization, Category 1B.
Eye irritation, Category 2B.



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Hazard Statement(s):

H317: May cause an allergic skin reaction.
H320: Causes 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.
P261: Avoid breathing fumes/gas/mist/vapors/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection.
P302+352: IF ON SKIN: Wash with plenty of water.
P333+313: If skin irritation or a rash occurs: Get medical advice/attention.
P362+364: Take off contaminated clothing and wash it before reuse.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other Hazard Statement(s):

-NFPA Ratings:
Health = 1
Fire = 1
Reactivity = 0

Caution: MILD CAUSTIC SOLUTION, Avoid contact with eyes/skin.



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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-(2-butoxyethoxy) ethanol	112-34-5	1 to < 3
Citrus, ext.	94266-47-4	< 2
Fatty acids, tall-oil, sodium salts	61790-45-2	< 2
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	< 2
Sodium xylenesulphonate	1300-72-7	< 2
Sodium acrylate	7446-81-3	< 2
Alcohols, C12-16, ethoxylated	68551-12-2	< 2
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	68585-47-7	< 2

**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.

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:

Rinse mouth with water. Drink copious amounts of water and 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:
Irritant to skin and eyes. May cause nausea and vomiting.
Irritating to mouth, throat and stomach.
-Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

Recommended Actions:

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

5	FIRE FIGHTING MEASURES
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Recommended Fire-Extinguishing Equipment:

Use dry powder, foam, or carbon dioxide fire extinguishers. Water may be ineffective in fighting an oil fire unless used by experienced fire fighters.

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.

Recommendations to Firefighters:

Proper protective equipment including breathing apparatus.



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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:

Use good personal hygiene practices
Avoid contact with the eyes and skin.
Avoid contact with clothing.
Use only in well ventilated areas.
Avoid splashes or spray in enclosed areas.

Storage Requirements:

Keep container tightly sealed. Store only in original container.
Keep away from sources of ignition.



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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

-2-(2-butoxyethoxy) ethanol:

ACGIH TWA – 10ppm

-Ethanol:

ACGIH TLV – 1000ppm

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Eyewash station and safety shower should be available.

Personal Protective Equipment:

-General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Wear gloves and safety glasses/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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Physical State:	Liquid
Odor:	Mild Citrus
Odor Threshold:	Data not available
pH:	11.0-11.5
Melting Point:	Data not available
Boiling Point:	>270° F
Boiling Range:	Data not available



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Flash Point:	>210° F
Evaporation Rate:	Data not available
Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	Data not available
Vapor Density:	Data not available
Relative Density:	Data not available
Solubilities:	Fully miscible with water
Partition Coefficient:	Data not available
Auto-Ignition Temperature:	Data not available
Decomposition Temperature:	Data not available
Viscosity:	Data not available

10 STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Reactivity:

Not reactive under normal conditions.

Conditions to Avoid:

No further relevant information available.

Hazardous Reactions:

No known hazardous reactions.

Incompatible Materials:

Acids

Decomposition Products:

Hazardous decomposition products are not expected to form.

11 TOXICOLOGICAL INFORMATION

Routes of Exposure:

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



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Exposure Effects:

Irritating to skin and mucous membranes.
Irritating to eyes.

Measures of Toxicity:

Amine oxides, C10-16-alkyldimethyl:

Oral LD50: 1330.00 mg/kg (rat)

Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts:

Oral LD50: >2001 mg/kg

Carcinogenic/Mutagenic Precautions:

Non-carcinogenic and not expected to be mutagenic.

12 ECOLOGICAL INFORMATION

Ecological Precautions:

Avoid exposing to the environment.

Ecological Effects:

Citrus, ext.:

Toxicity to fish : LC50 (Fish): 0.1 - 1.0 mg/l

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.



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Special Precautions:

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

14 TRANSPORT INFORMATION

UN Number: Data not available
UN Shipping Name: Data not available
Transport Hazard Class: Data not available
Packing Group: Data not available

Environmental Hazards:

Data not available

Bulk Transport Guidance:

Data not available

Special Precautions:

Not regulated by DOT.

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. (2,2'-iminodiethanol)

16 OTHER INFORMATION

Last Revision Date: 05/18/2020

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.