



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

<u>UN Number:</u>	Data not available
<u>UN Shipping Name:</u>	Data not available
<u>Transport Hazard Class:</u>	Data not available
<u>Packing Group:</u>	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

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Fuel Force Oil System Cleaner Concentrate

SDS Number: 46-11

1 PRODUCT AND COMPANY INFORMATION

Product Name: Fuel Force Oil System Cleaner Concentrate
Revision Date: 05/18/2020
SDS Number: 46-11
Common Name: N/A
CAS Number: Blend
Product Code: FF431
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:

WARNING

Hazard Classes/Categories:

Skin sensitization, Category 1.



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Fuel Force Oil System Cleaner Concentrate

SDS Number: 46-11

Hazard Statement(s):

H317: May cause an allergic skin reaction.

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.
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other Hazard Statement(s):

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

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Hydrotreated heavy paraffinic petroleum	64742-54-7	>99
Diethylenetriamine	111-40-0	<1

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



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Fuel Force Oil System Cleaner Concentrate

SDS Number: 46-11

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. Get medical attention if symptoms occur.

Skin Contact:

Wash with soap and water.
Remove contaminated clothing and wash before reuse.
Get medical attention if needed.

Eye Contact:

Flush with water for several minutes.
If effects occur, consult a physician.

Ingestion:

Rinse mouth with water.
If symptoms develop, obtain medical attention.

Symptoms and Effects, both acute and delayed:

No further relevant data available.

Recommended Actions:

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

5 FIRE FIGHTING MEASURES

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.



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Fuel Force Oil System Cleaner Concentrate

SDS Number: 46-11

Recommendations to Firefighters:

Proper protective equipment including breathing apparatus.

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.

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:

Wear personal protective equipment. Avoid contact with eyes.

Storage Requirements:

Keep containers tightly closed in a dry, cool and well-ventilated place.



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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

-64742-54-7 Distillates (petroleum), hydrotreated heavy parffinic:

ACGIH TWA – 5mg/m³ (oil mist)

ACGIH STEL - 10mg/m³ (oil mist)

OSHA TWA – 5mg/m³ (oil mist)

Engineering Controls:

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

Personal Protective Equipment:

Wash hands before breaks and at the end of work.
Use safety glasses and gloves.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Physical State:	Liquid
Odor:	Data not available
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	Data not available
Boiling Point:	Data not available
Boiling Range:	Data not available
Flash Point:	Data not available
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:	6.89 pounds per gallon at 60° F
Solubilities:	Insoluble in water
Partition Coefficient:	Data not available
Auto-Ignition Temperature:	Data not available
Decomposition Temperature:	Data not available
Viscosity:	Data not available



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Fuel Force Oil System Cleaner Concentrate

SDS Number: 46-11

10 STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Reactivity:

Not reactive under normal conditions.

Conditions to Avoid:

Extreme temperature, sparks, open flame, and direct sunlight.

Hazardous Reactions:

No known hazardous reactions.

Incompatible Materials:

No further relevant information available.

Decomposition Products:

Hazardous decomposition products are not expected to form.

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:

Repeated skin contact may cause dermatitis or an oil acne.

Measures of Toxicity:

No test data available.

Carcinogenic/Mutagenic Precautions:

Non-carcinogenic and not expected to be mutagenic.



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Fuel Force Oil System Cleaner Concentrate

SDS Number: 46-11

12 ECOLOGICAL INFORMATION

Ecological Precautions:

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

Ecological Effects:

No specific environmental or aquatic data available.

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 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.



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Fuel Force Oil System Cleaner Concentrate

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15	REGULATORY INFORMATION
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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
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Last Revision Date: 05/18/2020

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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

1 PRODUCT AND COMPANY INFORMATION

Product Name: Fuel Force Elite Gasoline Treatment
Revision Date: 08/28/2018
SDS Number: 46-03
Common Name: Pour in tank gas additive engine cleaner
CAS Number: Blend
Product Code: FF692, FF693
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

Hazard Classes/Categories:

Flammable liquid, Category 3.
Skin sensitization, Category 1.



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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

Skin irritant, Category 2.
Serious eye irritation, Category 2A.
Germ cell mutagen, Category 1B.
Carcinogen, Category 1B.
Aspiration hazard, Category 1.
Hazardous to the aquatic environment, Category chronic 3.

Hazard Statement(s):

Flammable liquid and vapor.
May cause an allergic skin reaction.
Causes skin irritation.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
May be fatal if swallowed and enters airways.
Harmful 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wash thoroughly after handling.
Avoid breathing mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Immediately call a poison center/doctor.
Do NOT induce vomiting.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazard Statement(s):

-NFPA Ratings:
Health = 2
Fire = 2
Reactivity = 1



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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Solvent naphtha (petroleum), light arom.	64742-95-6	50-100
2-butoxyethanol	111-76-2	10-<20
Distillates (petroleum), sweetened middle	64741-86-2	2.5-<10
Ethanol, 2,2'-iminobis-, N-tallow alkylderivs.	61791-44-4	0.1-<1
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	0.1-<1
n,n'-Disalicylidene-1,2-propanediamine	94-91-7	0.1-<1
1,2,4-trimethylbenzene	95-63-6	0.1-<1
Naphthalene	91-20-3	0.25-<1
Ethylbenzene	100-41-4	0.1-<1

**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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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

Ingestion:

Do not induce vomiting; immediately call for medical help.
A person vomiting while lying on their back should be turned onto their side.
Rinse mouth with water.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If conscious, give small quantities of water to drink.
Stop if victim feels sick.

Symptoms and Effects, both acute and delayed:

- Most important symptoms and effects, both acute and delayed:
May cause eye irritation. Symptoms may include discomfort or pain, excessive blinking and tear production, with possible redness and swelling.
Headache
Dizziness
Disorientation
Coughing
Nausea
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.
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.
- Indication of any immediate medical attention and special treatment needed
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Recommended Actions:

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



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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

5 FIRE FIGHTING MEASURES

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 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:

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Particular danger of slipping on leaked/spilled product.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Do not touch or walk through spilled material.

Emergency Procedures:

Contain spilled material, collect in suitable and properly labeled containers. Do not flush with water or aqueous cleansing agents.



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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

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).

Do not flush with water or aqueous cleansing agents.

Ensure adequate ventilation.

7	HANDLING AND STORAGE
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Handling Precautions:

- Precautions for safe handling:

Open and handle receptacle with care.

Use only in well ventilated areas.

Avoid contact with the eyes and skin.

Avoid contact with clothing.

Avoid splashes or spray in enclosed areas.

Keep in the original containers.

See section 8 for personal protective equipment.

Do not reuse container.

- 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.



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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

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

PEL TWA: 240 mg/m³, 50 ppm

Skin

REL TWA: 24 mg/m³, 5 ppm

Skin

TLV TWA: 97 mg/m³, 20 ppm

BEI

-91-20-3 Naphthalene (0.25-1%):

PEL TWA: 50 mg/m³, 10 ppm

REL STEL: 75 mg/m³, 15 ppm

TWA: 50 mg/m³, 10 ppm

TLV TWA: 52 mg/m³, 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 or water shower 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



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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

and goggles.

Do not eat, drink, smoke or sniff while working.

- 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:	Yellow to light orange
Physical State:	Liquid
Odor:	Characteristic
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	Data not available
Boiling Point:	162° C
Boiling Range:	Data not available
Flash Point:	45° C
Evaporation Rate:	Data not available
Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	5 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:	Data not available

10 STABILITY AND REACTIVITY

Stability:

Stable under normal conditions. Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

Reactivity:

Not reactive under normal conditions.



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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

Conditions to Avoid:

Extreme temperature, sparks, open flame, and direct sunlight.

Hazardous Reactions:

No known hazardous reactions.

Incompatible Materials:

Strong Oxidizers

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: Causes serious eye irritation.
- Inhalation: Do not inhale, can cause respiratory system irritation, coughing.
- Ingestion: May be fatal if swallowed and enter airways.
- Sensitization: May produce an allergic reaction.

Measures of Toxicity:

ATE (Acute Toxicity Estimates):

Oral LD50: 3133 mg/kg (rat)

Dermal LD50: 2667 mg/kg (rat)

Inhalative LC50/4 h: 5.88 mg/l (rat)



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Fuel Force Elite Gasoline Treatment

SDS Number: 46-03

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)

64742-95-6 Solvent naphtha (pet.), light arom.:

Oral LD50: >6800 mg/kg (rat)

Dermal LD50: >3400 mg/kg (rabbit)

Inhalative LC50/4 h: >10.2 mg/l (rat)

64741-86-2 Distillates (pet.), Sweetened middle:

Inhalative LC50/4 h: 4.6 mg/l (rat)

64742-54-7 Distillates (pet.), Hydrotreated Heavy
Paraffinic:

Inhalative LC50/4 h: 0.4 mg/l (rat)

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).

Xylene: Carcinogenic category 3 (IARC).

Naphthalene: Carcinogenic category 2B (IARC).

Toxicology rating R (NTP).

Ethylbenzene: Carcinogenic category 2B (IARC).



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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.

14 TRANSPORT INFORMATION

UN Number:

UN1268

UN Shipping Name:

PETROLEUM DISTILLATES, n.o.s.

Transport Hazard Class:

3

Packing Group:

III

Environmental Hazards:

None



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Bulk Transport Guidance:

Data not available

Special Precautions:

DOT quantity limitations of 60 L on passenger aircraft or rail, and 220 L on cargo aircraft.

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



WARNING: This product can expose you to chemicals including Naphthalene, Ethylbenzene, and 2-Butoxyethanol, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

16	OTHER INFORMATION
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Last Revision Date: 08/28/2018

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.