



# Gulf Select

## Safety Data Sheet

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### Gulf Select Top End Fuel System Cleaner

SDS Number: GS258

#### 1 PRODUCT AND COMPANY INFORMATION

Product Name: Gulf Select Top End Fuel System Cleaner  
Revision Date: 12/18/2015  
SDS Number: GS258  
Common Name: Petroleum naphtha and distillates  
CAS Number: Blend  
Product Code: GS258  
Synonyms: Petroleum based systems cleaner

#### Company Identification:

*Supplier:*

NU-TIER BRANDS, INC.  
8282 S. Memorial Drive, Suite 302  
Tulsa, OK 74133  
[www.gulflubricants.net](http://www.gulflubricants.net)

*Under license from Gulf Oil LP*

For Product Information: 1-800-566-4853  
For Emergencies: 1-800-424-9300 (CHEMTREC)

#### 2 HAZARDS IDENTIFICATION



Signal Word:

**DANGER**

Hazard Classes/Categories:

Flammable liquid, Category 3.  
Acute toxicity, Inhalation category 4.  
Skin irritant, Category 2.  
Serious eye irritation, Category 2A.

Germ cell mutagen, Category 1B.

Carcinogen, Category 1B.

Aspiration hazard, Category 1.

Hazard Statement(s):

H226: Flammable liquid and vapor.

H332: Harmful if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H340: May cause genetic defects.

H350: May cause cancer.

H304: May be fatal if swallowed and enters airways.

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.

P201: Obtain special instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241: Use explosion-proof electrical/ventilating/light/equipment.

P264: Wash thoroughly after handling.

P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.

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

P240: Ground/bond container and receiving equipment.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P362+364: Take off contaminated clothing and wash it before reuse.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/ doctor/if you feel unwell.

P405: Store locked up.

P403: Store in a well ventilated place. Keep cool.

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

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### Other Hazard Statement(s):

-NFPA Ratings:

Health = 1

Fire = 2

Reactivity = 0

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Naphtha (petroleum), light alkylate	64741-66-8	25-50
2-butoxyethanol	111-76-2	<10
Solvent naphtha (petroleum), light aromatic	64742-95-6	<10
4-methylpentan-2-ol	108-11-2	2.5-10
Oleic acid, pure	112-80-1	2.5-10
Distillates (petroleum), sweetened middle	64741-86-2	1-2.5
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	1-2.5
Ammonia	1336-21-6	0.1-1
Naphthalene	91-20-3	0.1-0.25

\*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:

If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

##### 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



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persists, get medical attention.

**Ingestion:**

Rinse mouth with water. DO NOT induce vomiting. Obtain medical attention.

Symptoms and Effects, both acute and delayed:

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

Headache

Dizziness

May cause nose, throat, and lung irritation.

Harmful if swallowed. May be fatal if swallowed and enters airways. Swallowing a small quantity of this material will result in serious health hazard.

Irritating to skin and eyes. Could cause dermatitis.

Will cause nausea and vomiting.

-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.

## 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:

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:

Keep receptacles tightly sealed.  
Open and handle receptacle with care.  
Use only in well ventilated areas.  
Avoid contact with the eyes and skin.  
Avoid contact with clothing.

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Avoid splashes or spray in enclosed areas.

### Storage Requirements:

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits:

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

TLV - TWA: 97 mg/m<sup>3</sup> (BEI)  
REL - TWA: 24 mg/m<sup>3</sup> (skin)  
PEL - TWA: 240 mg/m<sup>3</sup> (skin)

-108-11-2 4-methylpentan-2-ol (2.5-10%):

TLV - STEL: 167 mg/m<sup>3</sup>      TWA: 104 mg/m<sup>3</sup> (skin)  
REL - STEL: 165 mg/m<sup>3</sup>      TWA: 100 mg/m<sup>3</sup> (skin)  
PEL - TWA: 100 mg/m<sup>3</sup> (skin)

\*Ingredients with biological limit values:

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

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:  
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:	Yellow
Physical State:	Liquid
Odor:	Characteristic
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	Data not available
Boiling Point:	131° C / 268° F
Boiling Range:	Data not available
Flash Point:	45° C / 113° F
Evaporation Rate:	Data not available
Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	4 mmHg at 20° C
Vapor Density:	Data not available
Relative Density:	0.817 g/cm <sup>3</sup> (6.818 lbs/gal)
Solubilities:	Insoluble 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.

Reactivity:  
Not reactive under normal conditions.

Conditions to Avoid:



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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:

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

#### Exposure Effects:

Irritant to skin and mucous membranes.  
Irritant to eyes.

#### Measures of Toxicity:

Top End Fuel System Cleaner:

Oral LD50: 4040 mg/kg (rat) (ATE)  
Dermal LD50: 3279 mg/kg (ATE)  
Inhalative LC50/4h: 16.5 mg/l (rat) (ATE)

111-76-2 2-butoxyethanol:

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

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

Oral LD50: >6800 mg/kg (rat)  
Dermal LD50: >3400 mg/kg (rab)  
Inhalative LC50/4h: >10.2 mg/l (rat)





108-11-2 4-methylpentan-2-ol:

Oral LD50: 2590 mg/kg (rat)

Dermal LD50: 3560 mg/kg (rabbit)

112-80-1 oleic acid, pure:

Oral LD50: 74000 mg/kg (rat)

64741-86-2 Distillates (petroleum), sweetened middle:

Inhalative LC50/4h: 4.6 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).

Naphthalene: Carcinogenic category 2B (IARC).

2,2',2''-nitrotriethanol: Carcinogenic category 3 (IARC).

## 12 ECOLOGICAL INFORMATION

#### Ecological Precautions:

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.

#### Ecological Effects:

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: Flammable liquids, n.o.s. (Solvent naphtha (petroleum), light arom., Methyl isobutyl carbinol, 2-butoxyethanol)

Transport Hazard Class: 3

Packing Group: III

Environmental Hazards:

None

Bulk Transport Guidance:

Data not available

Special Precautions:

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

#### 15 REGULATORY INFORMATION



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## Gulf Select Top End Fuel System Cleaner

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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.

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Last Revision Date: 12/18/2015

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## Gulf Select Tank Boost Fuel System Concentrate Treatment

SDS Number: GS254

### 1 PRODUCT AND COMPANY INFORMATION

Product Name: Gulf Select Tank Boost Fuel System Concentrate Treatment  
Revision Date: 12/18/2015  
SDS Number: GS254  
Common Name: Fuel Additive  
CAS Number: Blend  
Product Code: GS254  
Synonyms: Tank boost fuel additive

#### Company Identification:

*Supplier:*

NU-TIER BRANDS, INC.  
8282 S. Memorial Drive, Suite 302  
Tulsa, OK 74133  
[www.gulflubricants.net](http://www.gulflubricants.net)

*Under license from Gulf Oil LP*

For Product Information: 1-800-566-4853  
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

## Gulf Select Tank Boost Fuel System Concentrate Treatment

SDS Number: GS254

### 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.



### Gulf Select Tank Boost Fuel System Concentrate Treatment

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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:

CO2, 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.



### Gulf Select Tank Boost Fuel System Concentrate Treatment

SDS Number: GS254

#### 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.



## Gulf Select Tank Boost Fuel System Concentrate Treatment

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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.



### Gulf Select Tank Boost Fuel System Concentrate Treatment

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#### 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

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#### 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:

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

Incompatible Materials:

No further relevant information available.



### Gulf Select Tank Boost Fuel System Concentrate Treatment

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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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### Gulf Select Tank Boost Fuel System Concentrate Treatment

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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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## Gulf Select Tank Boost Fuel System Concentrate Treatment

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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: 12/18/2015

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## Gulf Select Complete Induction Combustion Chamber Cleaner

SDS Number: GS252

### 1 PRODUCT AND COMPANY INFORMATION

Product Name: Gulf Select Complete Induction Combustion Chamber Cleaner  
Revision Date: 12/28/2015  
SDS Number: GS252  
Common Name: Intake and combustion chamber cleaner  
CAS Number: Blend  
Product Code: GS252  
Synonyms: N/A

#### Company Identification:

*Supplier:*

NU-TIER BRANDS, INC.  
8282 S. Memorial Drive, Suite 302  
Tulsa, OK 74133  
[www.gulflubricants.net](http://www.gulflubricants.net)

*Under license from Gulf Oil LP*

For Product Information: 1-800-566-4853  
For Emergencies: 1-800-424-9300 (CHEMTREC)

### 2 HAZARDS IDENTIFICATION



Signal Word:

**DANGER**

Hazard Classes/Categories:

Flammable liquid, Category 3.  
Acute toxicity, Inhalation category 4.  
Germ cell mutagen, Category 1B.  
Carcinogen, Category 1B.

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Specific target organ toxicity – repeated exposure, Category 1.  
Aspiration hazard, Category 1.

### Hazard Statement(s):

H226: Flammable liquid and vapor.  
H332: Harmful if inhaled.  
H340: May cause genetic defects.  
H350: May cause cancer.  
H372 Causes damage to the central nervous system through prolonged or repeated exposure.  
H304: May be fatal if swallowed and enters airways.

### 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.  
P201: Obtain special instructions before use.  
P260: Do not breathe dust/fumes/gas/mist/vapors/spray.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264: Wash thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P233: Keep container tightly closed.  
P242: Use only non-sparking tools.  
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312: Call a POISON CENTER/ doctor if you feel unwell.  
P308+311: IF exposed or concerned: Call a POISON CENTER/ doctor.  
P405: Store locked up.  
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 = 0  
Fire = 2  
Reactivity = 0

## Gulf Select Complete Induction Combustion Chamber Cleaner

SDS Number: GS252

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Solvent naphtha (petroleum), medium aliph.	64742-88-7	50-100
Solvent naphtha (petroleum), light arom.	64742-95-6	2.5-<10
1,2,4-trimethylbenzene	95-63-6	1-<2.5
Xylene	1330-20-7	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:

Supply fresh air; consult doctor in case of complaints.

##### Skin Contact:

Immediately rinse with water. Immediately remove all contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

##### Eye Contact:

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

##### Ingestion:

If symptoms persist consult doctor.

#### 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.

Breathing difficulty

Coughing





### Gulf Select Complete Induction Combustion Chamber Cleaner

SDS Number: GS252

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 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:

Medical supervision for at least 48 hours.

#### 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. 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.



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#### 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.

#### 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 against electrostatic charges.

Keep respiratory protective device available.



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#### Storage Requirements:

Keep receptacle tightly sealed.  
Store in cool, dry, dark place, away from direct sunlight.

#### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Exposure Limits:

-95-63-6 1,2,4-trimethylbenzene (1-2.5%):

REL TWA: 125 mg/m<sup>3</sup>, 25 ppm

TLV TWA: 123 mg/m<sup>3</sup>, 25 ppm

-1330-20-7 Xylene (1-2.5%):

PEL TWA: 435 mg/m<sup>3</sup>, 100 ppm

REL STEL: 655 mg/m<sup>3</sup>, 150 ppm

TWA: 435 mg/m<sup>3</sup>, 100 ppm

TLV STEL: 651 mg/m<sup>3</sup>, 150 ppm

TWA: 434 mg/m<sup>3</sup>, 100 ppm

BEI

- Ingredients with biological limit values:

-1330-20-7 Xylene (1-2.5%):

BEI 1.5 g/g creatinine

Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

##### Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Have an eye wash station and safety shower 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.



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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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#### PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Physical State:	Liquid
Odor:	Petroleum
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	Data not available
Boiling Point:	153° C
Boiling Range:	Data not available
Flash Point:	40° C
Evaporation Rate:	Data not available
Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	6.6 hPa at 20° C
Vapor Density:	Data not available
Relative Density:	Data not available
Solubilities:	Not miscible or difficult to mix
Partition Coefficient:	Data not available
Auto-Ignition Temperature:	Data not available
Decomposition Temperature:	Data not available
Viscosity:	Data not available

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#### STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Reactivity:

Not reactive under normal conditions.



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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: May cause mild skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis.
- On the eye: May cause eye irritation.
- Inhalation: May cause respiratory tract irritation. Serious effects may be delayed after exposure.
- Ingestion: May be fatal if swallowed and enter airways.

Measures of Toxicity:

-ATE (Acute Toxicity Estimates):

Oral LD50: 158088 mg/kg (rat)

Dermal LD50: 3300 mg/kg

Inhalative LC50/4 h: 15 mg/l (rat)

-6 4742-88-7 Solvent naphtha (petroleum), medium aliph.:

Oral LD50: >6500 mg/kg (rat)

Dermal LD50: >3000 mg/kg (rabbit)

Inhalative LC50/4 h: >14 mg/l (rat)



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

Oral LD50: >6800 mg/kg (rat)

Dermal LD50: >3400 mg/kg (rabbit)

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

-95-63-6 1,2,4-trimethylbenzene:

Oral LD50: 5000 mg/kg (rat)

Inhalative LC50/4 h: 18 mg/l (rat)

-1330-20-7 Xylene:

Oral LD50: 4300 mg/kg (rat)

Dermal LD50: 2000 mg/kg (rabbit)

Inhalative LC50/4 h: 6700 mg/l (rat)

#### Carcinogenic/Mutagenic Precautions:

Xylene: Carcinogenic category 3 (IARC).

## 12 ECOLOGICAL INFORMATION

#### Ecological Precautions:

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.

#### Ecological Effects:

No specific environmental or aquatic data available.

## 13 DISPOSAL CONSIDERATIONS

#### Disposal Methods:

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



# Gulf Select

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Disposal Containers:

Use properly approved container for disposal.

Special Precautions:

Do not flush to surface waters or drains.

#### 14 TRANSPORT INFORMATION

UN Number: UN1993

UN Shipping Name: Flammable liquids, n.o.s. (Turpentine substitute,  
Solvent naphtha (petroleum), light arom.)

Transport Hazard Class: 3

Packing Group: III

Environmental Hazards:

None

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

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: 12/28/2015

*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.*