



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.



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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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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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#### OTHER INFORMATION

Last Revision Date: 12/18/2015

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