



Gulf Select Winter Diesel Force Fuel Treatment

SDS Number: GS650
GS605

1 PRODUCT AND COMPANY INFORMATION

Product Name: Gulf Select Winter Diesel Force Fuel Treatment
Revision Date: 12/28/2015
SDS Number: GS650
GS605
Common Name: Diesel fuel additive
CAS Number: Blend
Product Code: GS650
GS605
Synonyms: N/A

Company Identification:

Supplier:

NU-TIER BRANDS, INC.
8282 S. Memorial Drive, Suite 302
Tulsa, OK 74133
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



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Hazard Classes/Categories:

Flammable liquid, Category 3.
Acute toxicity, Oral category 4.
Acute toxicity, Dermal category 4.
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.
Hazardous to the aquatic environment, Category chronic 3.

Hazard Statement(s):

H226: Flammable liquid and vapor.
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
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.
H412: Harmful to aquatic life with long-lasting effects.

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.
P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+311: IF exposed or concerned: Call a POISON CENTER/ doctor.
P331: Do NOT induce vomiting.
P403+235: 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
Distillates (petroleum), hydrotreated light	64742-47-8	25-50
2-butoxyethanol	111-76-2	10-20
2-ethylhexyl nitrate	27247-96-7	10-25
Solvent naphtha (petroleum), light arom.	64742-95-6	2.5-10
Solvent naphtha (petroleum), heavy arom.	64742-94-5	2.5-10
1,2,4-trimethylbenzene	95-63-6	<2.5
Xylene	1330-20-7	1-2.5
Mesitylene	108-67-8	1-2.5
Benzene, ethylenated, residues, distn. Lights	178535-25-6	0.1-1
Naphthalene	91-20-3	0.25-1
Ethylbenzene	100-41-4	0.1-1
1,3,5-triethylbenzene	102-25-0	0.1-1
Cumene	98-82-8	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.



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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.

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.



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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:

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.



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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 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/m³, 50 ppm

Skin

REL TWA: 24 mg/m³, 5 ppm

Skin

TLV TWA: 97 mg/m³, 20 ppm

BEI



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

REL TWA: 125 mg/m³, 25 ppm

TLV TWA: 123 mg/m³, 25 ppm

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

PEL TWA: 435 mg/m³, 100 ppm

REL STEL: 655 mg/m³, 150 ppm

TWA: 435 mg/m³, 100 ppm

TLV STEL: 651 mg/m³, 150 ppm

TWA: 434 mg/m³, 100 ppm

BEI

-108-67-8 Mesitylene (1-2.5%):

REL TWA: 125 mg/m³, 25 ppm

TLV TWA: 123 mg/m³, 25 ppm

-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

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

BEI 1.5 g/g creatinine

Medium: urine

Time: end of shift

Parameter: Methylhippuric acids



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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.

9 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:	162° C
Boiling Range:	Data not available
Flash Point:	61° C
Evaporation Rate:	Data not available
Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	2 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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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:

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.

Measures of Toxicity:

ATE (Acute Toxicity Estimates):

Oral LD50: 1797 mg/kg
Dermal LD50: 1924 mg/kg
Inhalative LC50/4 h: 11.3 mg/l



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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)

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)

178535-25-6 Benzene, ethylenated, residues, distn.
Lights:

Oral LD50: >2000 mg/kg (rat)

91-20-3 naphthalene:

Oral LD50: 490 mg/kg (rat)
Dermal LD50: 5000 mg/kg (rat)



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100-41-4 ethylbenzene:

Oral LD50: 3500 mg/kg (rat)
Dermal LD50: 17800 mg/kg (rabbit)
Inhalative LC50/4 h: 17.8 mg/l (rat)

98-82-8 cumene:

Oral LD50: 1400 mg/kg (rat)
Dermal LD50: 12300 mg/kg (rabbit)
Inhalative LC50/4 h: 24.7 mg/l (mouse)

Carcinogenic/Mutagenic Precautions:

2-butoxyethanol: Carcinogenic category 3 (IARC).
Xylene: Carcinogenic category 3 (IARC).
Naphthalene: Carcinogenic category 2B (IARC).
Ethylbenzene: Carcinogenic category 2B (IARC).
Cumene: 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)



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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:

UN1993

UN Shipping Name:

Flammable liquids, n.o.s. (Distillates (petroleum), hydrotreated light, Solvent naphtha (petroleum), light arom., Xylenes, 2-butoxyethanol)

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.

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



**Gulf
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Safety Data Sheet

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OTHER INFORMATION

Last Revision Date: 12/28/2015

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