

BioSURE Heating Oil Additive

SDS Number: 60494

Revision Date: 10/27/2017

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

ADT Fuel Additives
P.O. Box 252
Pitman, NJ 08071

Emergency: 1-800-424-9300 (Chemtrec)
Phone: 1-856-589-8564

Product Name: BioSURE Heating Oil Additive
Revision Date: 10/27/2017
SDS Number: 60494
CAS Number: Blend
Product Code: 60494

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 4
Health, Skin corrosion/irritation, 1 C
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Specific target organ toxicity - Single exposure, 3
Health, Acute toxicity, 3 Oral
Health, Acute toxicity, 3 Dermal
Health, Acute toxicity, 3 Inhalation
Health, Aspiration hazard, 1
Health, Carcinogenicity, 2
Health, Specific target organ toxicity - Repeated exposure, 2
Environmental, Hazards to the aquatic environment - Chronic, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H227 - Combustible liquid
H314 - Causes severe skin burns and eye damage
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H304 - May be fatal if swallowed and enters airways
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects



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GHS Precautionary Statements:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P240 - Ground/bond container and receiving equipment.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P273 - Avoid release to the environment.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P307+311 - IF exposed: Call a POISON CENTER or doctor/physician.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
111-76-2	30-40%	2-Butoxyethanol
64742-94-5	20-30%	Solvent naphtha, petroleum, heavy arom.
128-39-2	<10%	2,6-Di-tert-butylphenol
101-96-2	<10%	1,4-Benzenediamine, N,N'-bis(1-methylpropyl)-
91-20-3	<5%	Naphthalene
64742-95-6	<3%	Solvent naphtha, petroleum, light arom.
95-63-6	<3%	1,2,4-Trimethylbenzene
1330-20-7	<3%	Xylene
84605-20-9	<3%	Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs.
94-91-7	<2%	Phenol, 2,2'-[(1-methyl-1,2-ethanediyl)bis(nitrilomethylidene)]bis-

4 FIRST AID MEASURES

- Inhalation:** If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
- Skin Contact:** Wash with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if needed.
- Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
- Ingestion:** Rinse mouth with water and drink 2-4 cups of water. Immediately get medical attention.

5 FIRE FIGHTING MEASURES

- Flash Point:** 67 C (153 F)
- Use dry powder, foam, or carbon dioxide fire extinguishers.
- Water may be ineffective unless used by experienced fire fighters.
- In case of fire and/or explosion do not breathe fumes.

6 ACCIDENTAL RELEASE MEASURES

- Eliminate sources of ignition - Heat, sparks, flame, and electricity
- Contain spilled material.
- Collect in suitable and properly labeled containers.
- Pick up excess with inert absorbant material
- Keep away from drains and ground water.



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HANDLING AND STORAGE

- Handling Precautions:** Avoid contact with eyes, skin, or clothing.
Keep away from sources of ignition.
Do not pressurize, cut, weld, braze, solder, drill, or grind containers.
Handle with care and avoid spillage on the floor (slippage).
Ground and bond containers when transferring material
- Storage Requirements:** Keep away from sources of ignition.
Store in a tightly closed container

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EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).
- Personal Protective Equipment:** Use of safety glasses and gloves is recommended.
- Exposure Guidelines:**
- LIGHT AROMATIC SOLVENT NAPHTHA (PETROLEUM)**
OSHA TWA: 500 ppm
 - 1,2,4-TRIMETHYLBENZENE**
ACGIH TWA: 25 ppm
 - XYLENE**
OSHA TWA: 100 ppm, 435 mg/m³
ACGIH TWA: 100 ppm, 434 mg/m³
 - NAPHTHALENE**
OSHA PEL: 10 ppm, 50 mg/m³
OSHA TWA: 10 ppm, 50 mg/m³
ACGIH TWA: 10 ppm, 52 mg/m³

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PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|-------------------------------|--------------------------|------------------------------|----------------------|
| Appearance: | Amber | Odor: | Hydrocarbon-like |
| Physical State: | Liquid | Solubility: | Nil in water |
| Spec Grav./Density: | 0.92 at 60 F (Water = 1) | Freezing/Melting Pt.: | Not available |
| Viscosity: | Not available | Flash Point: | 67 C (153 F) |
| Flammability: | Not available | Vapor Density: | Not available |
| Partition Coefficient: | Not available | Bulk Density: | 7.64 lbs/gal at 60 F |
| Vapor Pressure: | Not available | UFL/LFL: | Not available |
| pH: | Not available | | |
| Evap. Rate: | Not available | | |
| Decomp Temp: | Not available | | |

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STABILITY AND REACTIVITY

- Chemical Stability:** Product is stable under normal conditions.
- Conditions to Avoid:** High temperatures above 50 C (122 F), sparks, and open flame.
- Materials to Avoid:** Avoid strong oxidizing agents. May burn or react violently to flourine/oxygen mixtures.
- Hazardous Decomposition:** Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.
- Hazardous Polymerization:** Will not occur.



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11 TOXICOLOGICAL INFORMATION

No component is listed as a mutagen or teratogen.

SKIN EFFECTS:

Solvent Petroleum Naphtha, no deaths reported at 4 ml/kg (Rat). Slightly irritating (rabbit, 4 hour(s)).

2,6-DI-tertiary-Butylphenol, LD50, > 10000 mg/kg (Rabbit)

N,N'-DI-SEC-Butyl-P-Phenylenediamine, LD50, 2806 mg/kg (Rabbit)

ACUTE ORAL EFFECTS:

Solvent Petroleum Naphtha, LD50, 10 ml/kg in rats.

Naphthalene, Oral LD50, 2600 mg/kg (rat).

2,6-DI-tertiary-Butylphenol, LD50, > 5000 mg/kg (Rat)

N,N'-DI-SEC-Butyl-P-Phenylenediamine, LD50, 148 mg/kg (Rat)

ACUTE INHALATION EFFECTS:

Solvent Petroleum Naphtha, no deaths at 710 ppm (v) (Rat) 4 Hour (s).

N,N'-DI-SEC-Butyl-P-Phenylenediamine, LC100, 1875 mg/m³, 4 hours (Rat)

N,N'-DI-SEC-Butyl-P-Phenylenediamine, LC50, 600 mg/m³, 6 hours (Rat)

12 ECOLOGICAL INFORMATION

Avoid exposing to the environment.

Toxic to aquatic organisms.

May cause long term adverse effects in the aquatic environment. Based on calculations.

This product contains components which may be persistent in the environment.

13 DISPOSAL CONSIDERATIONS

Dispose of waste material in accordance with all local, state/provincial, and national requirements

Do not flush to surface water or drains

14 TRANSPORT INFORMATION

NA1993, Combustible liquid, n.o.s., Combustible liquid, PGIII, (Contains 2-Butoxyethanol, Petroleum Naphtha.)

Not regulated in containers less than 119 gallons.

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

2-Butoxyethanol (111-76-2) [30-40%] HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

Solvent naphtha, petroleum, heavy arom. (64742-94-5) [20-30%] TSCA

2,6-Di-tert-butylphenol (128-39-2) [<10%] TSCA

1,4-Benzenediamine, N,N'-bis(1-methylpropyl)- (101-96-2) [<10%] TSCA

RQ(100LBS), Naphthalene (91-20-3) [<5%] CERCLA, CSWHS, EPCRAWPC, GADSL, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

Solvent naphtha, petroleum, light arom. (64742-95-6) [<3%] TSCA



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1,2,4-Trimethylbenzene (95-63-6) [<3%] MASS, NJHS, PA, SARA313, TSCA, TXAIR

RQ(100LBS), Xylene (1330-20-7) [<3%] CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs. (84605-20-9) [<3%] TSCA

Phenol, 2,2'-[(1-methyl-1,2-ethanediy)]bis(nitrilomethylidyne)]bis- (94-91-7) [<2%] TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity
HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
GADSL = Global Automotive Declarable Substance List (GADSL)
NJHS = NJ Right-to-Know Hazardous Substances
PRIPOL = Clean Water Act Priority Pollutants
SARA313 = SARA 313 Title III Toxic Chemicals
TOXICPOL = Clean Water Act Toxic Pollutants
TOXICRCRA = RCRA Toxic Hazardous wastes (U-List)
TXHWL = TX Hazardous Waste List

16	OTHER INFORMATION
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