Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **EU STA-BIL® Ethanol Fuel Treatment & Stabilizer - Protection**

Synonyms • 590690

Product Code • 22232EU; 22264EU; 22265EU; 22268EU; 22269EU; 22274EU; 22275EU; 22281EU; 22282EU; 22284EU; 22286EU; 22288EU; 22291EU; 22294EU

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Gasoline fuel stabilizer

Use(s) advised against • Do NOT use in diesel fuel

1.3 Details of the supplier of the safety data sheet

Manufacturer • Gold Eagle Co.

4400 S. Kildare Avenue
Chicago, IL 60632-4372
United States
http://www.goldeagle.com/

Telephone (General) • 773-376-4400

1.4 Emergency telephone number

Manufacturer • 1-800-535-5053 - (INFOTRAC #22283)

Manufacturer • 01-352-323-3500 - INFOTRAC - International Shipments

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

2.1 Classification of the substance or mixture

CLP • Aspiration 1 - H304
Carcinogenicity 2 - H351
Reproductive Toxicity 2 - H361
EUH401

2.2 Label Elements

CLP

WARNING



Hazard statements • H315+H320 - Causes skin and eye irritation
H304 - May be fatal if swallowed and enters airways
H351 - Suspected of causing cancer.
H361 - Suspected of damaging fertility or the unborn child.

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

Response

- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water.
  P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P332+P313 - If skin irritation occurs: Get medical advice/attention.
  P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3 Other Hazards

CLP

- No data available

2.4 Other information

NFPA



Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition				
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**
Distillates (petroleum), hydrotreated light	**CAS:**64742-47-8	76.15%	NDA	
Sweetened middle distillate	**CAS:**64741-86-2	3.32% TO 4.9634%	NDA	
Solvent naphtha	**CAS:**64742-94-5	2.110108% TO 4.203589%	Inhalation-Rat LC50 • >590 mg/m³ 4 Hour(s) Skin-Rabbit LD50 • >2 mL/kg	
Ethylene glycol monobutyl ether	**CAS:**111-76-2	2.25% TO 2.5%	Inhalation-Rat LC50 • 450 ppm 4 Hour(s) Skin-Rabbit LD50 • 220 mg/kg Ingestion/Oral-Rat LD50 • 250 mg/kg	
Confidential ingredient	NDA	0.166% TO 0.8134%	NDA	
Naphthalene	**CAS:**91-20-3	0.01500027% TO 0.3572027%	Skin-Rabbit LD50 • >20 g/kg Ingestion/Oral-Rat LD50 • 490 mg/kg	

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. Remove and isolate contaminated clothing. Wash skin with soap and water.

Eye
- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical attention immediately.

Ingestion
- Do NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- Use carbon dioxide, dry chemical, foam and/or water fog.

Unsuitable Extinguishing Media
- No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Containers may explode when heated.
  Vapor explosion hazard indoors, outdoors or in sewers.
  Combustible material: may burn but does not ignite readily.
  Many liquids are lighter than water.
  Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
  Runoff to sewer may create fire or explosion hazard.
  Vapors may form explosive mixtures with air.
  Vapors may travel to source of ignition and flash back.
  Water may cause frothing.

Hazardous Combustion Products
- No data available

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection.
  Wear positive pressure self-contained breathing apparatus (SCBA).
  Move containers from fire area if you can do it without risk.
  LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Do not walk through spilled material. Use appropriate Personal Protective Equipment

(PPE) Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
  Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
  Use clean non-sparking tools to collect absorbed material.
  A vapor suppressing foam may be used to reduce vapors.
  All equipment used when handling the product must be grounded.
  LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
  LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

- No data available

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use only in well ventilated areas. Avoid contact with heat and ignition sources. Take precautionary measures against static charges. Do not use sparking tools. All equipment used when handling the product must be grounded. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing . Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a tightly closed container. Keep away from incompatible materials. Store in a well-ventilated place. Store in an area equipped with automatic sprinklers or fire extinguishing system. Store below 150º F. Empty containers contain product residues, assume emptied containers to have same hazards as full containers.

7.3 Specific end use(s)

- No data available

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines				
	Result	**ACGIH**	**NIOSH**	**OSHA**
Naphthalene (91-20-3)	TWAs	10 ppm TWA	10 ppm TWA; 50 mg/m3 TWA	10 ppm TWA; 50 mg/m3 TWA
	STELs	15 ppm STEL	15 ppm STEL; 75 mg/m3 STEL	Not established
Ethylene glycol monobutyl ether (111-76-2)	TWAs	20 ppm TWA	5 ppm TWA; 24 mg/m3 TWA	50 ppm TWA; 240 mg/m3 TWA

8.2 Exposure controls

Engineering Measures/Controls
- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use only appropriately classified electrical equipment.

Personal Protective Equipment

Respiratory
- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face
- Wear chemical splash safety goggles.

Skin/Body
- Wear appropriate gloves.

Environmental Exposure Controls
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
STEL = Short Term Exposure Limits are based on 15-minute exposures
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Amber to brown liquid with a distillate odor.
Color	Amber to brown.	Odor	Distillate odor.
Odor Threshold	No data available		
General Properties			
Boiling Point	180 F(82.2222 C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 0.83 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	3 Centistoke (cSt, cS) or mm2/sec @ 40 C(104 F)		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Vol.)	100 %
Volatiles (Vol.)	100 %		
Flammability			
Flash Point	> 141.5 F(> 60.8333 C)	UEL	7 %
LEL	0.8 %	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

9.2 Other Information

- No data available

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat. Incompatible materials.

10.5 Incompatible materials

- Strong oxidants.

10.6 Hazardous decomposition products

- Excessive heating and/or incomplete combustion will produce carbon monoxide.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

	CAS	
EU STA-BIL® Ethanol Fuel Treatment & Stabilizer - Protection	NDA	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • >2 g/kg; Skin-Rabbit • >2 g/kg • Comments: No deaths; **Irritation:** Skin-Rabbit • Essentially non-irritating; Unreported Route-Rabbit • Essentially non-irritating
Components		
Solvent naphtha (2.110108% TO 4.203589%)	64742-94-5	**Acute Toxicity:** Inhalation-Rat LC50 • >590 mg/m³ 4 Hour(s); Skin-Rabbit LD50 • >2 mL/kg; *Behavioral*:**Somnolence (general depressed activity)**; *Behavioral*:**Changes in motor activity (specific assay)**; *Behavioral*:**Irritability**; **Irritation:** Skin-Rabbit • 500 µL 24 Hour(s) • Mild irritation
Naphthalene (0.01500027% TO 0.3572027%)	91-20-3	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 490 mg/kg; Ingestion/Oral-Mouse TDLo • 158 mg/kg; *Brain and Coverings*:**Other degenerative changes**; *Liver*:**Other changes**; *Biochemical:Metabolism (intermediary)*:**Lipids, including transport**; Inhalation-Human TCLo • 250 mg/m³; *Sense Organs and Special Senses:Eye*:**Lacrimation**; *Behavioral*:**Headache**; Skin-Rabbit LD50 • >20 g/kg; Unreported-Guinea Pig LD50 • 1200 mg/kg; *Behavioral*:**Somnolence (general depressed activity)**; **Irritation:** Skin-Rabbit • 0.05 mL 24 Hour(s) • Severe irritation; **Multi-dose Toxicity:** Ingestion/Oral-Rat TDLo • 500 mg/kg 10 Day(s)-Intermittent; *Behavioral*:**Sleep**; *Lungs, Thorax, or Respiration*:**Dyspnea**; Ingestion/Oral-Rat TDLo • 4500 mg/kg 10 Day(s)-Intermittent; *Brain and Coverings*:**Other degenerative changes**; **Mutagen:** Micronucleus test • Unreported Route-Human • Lymphocyte (Somatic cell) • 30 mg/L; **Reproductive:** Ingestion/Oral-Mouse TDLo • 2400 mg/kg (7-14D preg); *Reproductive Effects:Effects on Newborn*:**Live birth index**; *Reproductive Effects:Effects on Newborn*:**Viability index (e.g., # alive at day 4 per # born alive)**; Ingestion/Oral-Rat TDLo • 4500 mg/kg (6-15D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; *Reproductive Effects:Specific Developmental Abnormalities*:**Other developmental abnormalities**; **Tumorigen / Carcinogen:** Inhalation-Mouse TCLo • 30 ppm 6 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Neoplastic by RTECS criteria**; *Lungs, Thorax, or Respiration*:**Tumors**; Inhalation-Rat TCLo • 1575 mg/kg 105 Week(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Sense Organs and Special Senses:Olfaction*:**Tumors**; Inhalation-Rat TCLo • 60 ppm 6 Hour(s) 105 Week(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Sense Organs and Special Senses:Olfaction*:**Tumors**
		Acute Toxicity: Ingestion/Oral-Rat LD50 • 917 mg/kg; *Liver*:**Other changes**; *Kidney, Ureter, and Bladder*:**Other changes**; *Blood*:**Other hemolysis with or without anemia**; Inhalation-Rat LC50 • 2900 mg/m³ 7 Hour(s); *Liver*:**Other changes**; *Kidney, Ureter, and Bladder*:**Other changes**; *Blood*:**Other hemolysis with or without anemia**; Skin-Rabbit LD50 • 220 mg/kg; **Irritation:** Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg-Open • Mild irritation;

Ethylene glycol monobutyl ether (2.25% TO 2.5%)	111-76-2	**Multi-dose Toxicity:** Ingestion/Oral-Rat TDLo • 300 mg/kg 3 Day(s)-Intermittent; *Blood*:**Normocytic anemia**; *Blood*:**Other hemolysis with or without anemia**; Inhalation-Rat TCLo • 432 ppm 7 Hour(s) 30 Day(s)-Intermittent; *Kidney, Ureter, and Bladder*:**Hematuria**; *Blood*:**Other changes**; *Related to Chronic Data*:**Death in the Other Multiple Dose data type field**; **Mutagen:** DNA damage • Unreported-Mouse • 3150 mg/kg 7 Day(s); **Reproductive:** Ingestion/Oral-Rat TDLo • 600 mg/kg (9-11D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetal death**; **Tumorigen / Carcinogen:** Inhalation-Mouse TCLo • 250 ppm 6 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Liver*:**Tumors**

GHS Properties	Classification
Respiratory sensitization	**EU/CLP** • Data lacking
Serious eye damage/Irritation	**EU/CLP** • Data lacking
Acute toxicity	**EU/CLP** • Data lacking
Aspiration Hazard	**EU/CLP** • Data lacking
Carcinogenicity	**EU/CLP** • Data lacking
Skin corrosion/Irritation	**EU/CLP** • Data lacking
Skin sensitization	**EU/CLP** • Data lacking
STOT-RE	**EU/CLP** • Data lacking
STOT-SE	**EU/CLP** • Data lacking
Toxicity for Reproduction	**EU/CLP** • Data lacking
Germ Cell Mutagenicity	**EU/CLP** • Data lacking

Potential Health Effects

Inhalation

Acute (Immediate)
- May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)
- No data available.

Skin

Acute (Immediate)
- Material is classified as non-irritant and non-corrosive using GHS criteria.

Chronic (Delayed)
- No data available.

Eye

Acute (Immediate)
- Material is classified as non-irritant using GHS criteria.

Chronic (Delayed)
- No data available.

Ingestion

Acute (Immediate)
- Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

Chronic (Delayed)
- No data available.

Carcinogenic Effects
- Suspected of causing cancer. This product contains components that are considered carcinogenic by OSHA, IARC, NTP.

Carcinogenic Effects			
	CAS	**IARC**	**NTP**
Naphthalene	91-20-3	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen

Reproductive Effects
- Animal tests for components have shown adverse reproductive effects.

Key to abbreviations

LD = Lethal Dose
TC = Toxic Concentration
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

- Non-mandatory section - information about this substance not complied for this reason.

12.2 Persistence and degradability

- Non-mandatory section - information about this substance not complied for this reason.

12.3 Bioaccumulative potential

- Non-mandatory section - information about this substance not complied for this reason.

12.4 Mobility in Soil

- Non-mandatory section - information about this substance not complied for this reason.

12.5 Results of PBT and vPvB assessment

- No data available

12.6 Other adverse effects

- Non-mandatory section - information about this substance not complied for this reason.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user
- None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- No data available

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or

mixture

SARA Hazard Classifications
- Acute, Chronic, Fire

15.2 Chemical Safety Assessment

- No data available

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H315 - Causes skin irritation
  H319 - Causes serious eye irritation
  P260 - Do not breathe dust, fume, gas, mist, vapours and/or spray.
  P264 - Wash thoroughly after handling.
  P270 - Do not eat, drink or smoke when using this product.
  P280 - Wear protective gloves .
  P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
  P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
  H227 - Combustible liquid
  H302+H332 - Harmful if swallowed or if inhaled
  R36/38 - Irritating to eyes and skin.
  R45 - May cause cancer.
  R65 - Harmful: may cause lung damage if swallowed.
  S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  S37 - Wear suitable gloves.
  S57 - Use appropriate containment to avoid environmental contamination.
  R20/22 - Harmful by inhalation and if swallowed.
  R36/37/38 - Irritating to eyes, respiratory system and skin.

Revision Date
- 09/September/2015

Preparation Date
- 09/September/2015

Other Information
- Schedule B Number: 3811.90.0000.

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- Information presented herein is believed to be factual, as it has been derived from the works and opinions of persons believed to be qualified experts. However, nothing contained in this information is to be taken as warranty or representation for which the Gold Eagle Co. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Key to abbreviations

NDA = No Data Available