## Safety Data Sheet



## Section 1: Identification

Product identifier

**Product Name** 

Start Your Engines Fuel System Revitalizer

**Synonyms** 

589092

**Product Code** 

21205; 21206; 21212

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

Recommended use

For professional use only

Restrictions on use

· Read and follow label directions only

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

**Emergency telephone number** 

Manufacturer

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

## Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

### Classification of the substance or mixture

OSHA HCS 2012

• Flammable Liquids 2

Aspiration 1 Skin Irritation 2 Eye Irritation 2

Acute Toxicity Inhalation 4

Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects Germ Cell Mutagenicity 2

Reproductive Toxicity 1B

Specific Target Organ Toxicity Repeated Exposure 2

Label elements OSHA HCS 2012

DANGER







Hazard statements • Highly flammable liquid and vapour

May be fatal if swallowed and enters airways

Causes skin irritation Causes serious eye irritation

Harmful if inhaled

May cause respiratory irritation May cause drowsiness or dizziness Suspected of causing genetic defects. May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

Prevention • Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

Keep container tightly closed.

Ground and/or bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe mists, vapours, and/or spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

#### Response •

In case of fire: Use appropriate media for extinction.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

If on skin: Wash with plenty of water .

Take off contaminated clothing and wash before reuse. Specific treatment, see supplemental first aid information. If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ŚWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

IF exposed or concerned: Get medical advice/attention.

#### Storage/Disposal .

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Store locked up.

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

**Supplemental information** • 0 - 15 percent of this product consists of an ingredient of unknown toxicity.

#### Other hazards

OSHA HCS 2012

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Other information



## Section 3 - Composition/Information on Ingredients

#### Substances

· Material does not meet the criteria of a substance.

### **Mixtures**

			Compo	sition
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Meth Tert Butyl Ether	CAS:1634- 04-4	0% TO 60%		OSHA HCS 2012:
Xylene	CAS:1330- 20-7	0% TO 20%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	OSHA HCS 2012: Flam. Liq. 3; Acute Tox. 4 (Inhl); Skin Irrit. 2; Eye Irrit. 2; Repr. 1B (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.
Isopropyl alcohol	<b>CAS</b> :67-63-	0% TO 20%	Skin-Rabbit LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg Inhalation-Rat LC50 • 72600 mg/m³	OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; Muta. 2; Repr. 2; STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.; STOT RE 2 (Eyes, Inhl)

## **Section 4: First-Aid Measures**

#### Description of first aid measures

Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

Skin

 After contact with skin, take off immediately all contaminated clothing and wash immediately with plenty of fresh water. If irritation develops and persists, get medical attention.

Eye

 If eye irritation persists: Get medical advice/attention. 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.

Ingestion

If swallowed, seek medical advice immediately and show this container or label.

## Most important symptoms and effects, both acute and delayed

· No data available

# Indication of any immediate medical attention and special treatment needed

# Section 5: Fire-Fighting Measures

# **Extinguishing media**

**Suitable Extinguishing Media** • LARGE FIRES: Dry chemical, CO2, alcohol-resistant foam or water spray. SMALL FIRES: Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media

· No data available.

#### Firefighting Procedures

 As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.

Keep out of low areas.

Keep unauthorized personnel away.

Stay upwind.

Ventilate closed spaces before entering.

## Special hazards arising from the substance or mixture

**Unusual Fire and Explosion** 

Hazards

EXTREMELY FLAMMABLE

May be ignited by friction, heat, sparks or flames.
Vapor explosion hazard indoors, outdoors or in sewers.
Vapor explosion hazard indoors, outdoors or in sewers.

Hazardous Combustion Products

Advice for firefighters

No data available

### Section 6 - Accidental Release Measures

## Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

 Avoid contact with skin, eyes, and clothing. Use appropriate Personal Protective Equipment (PPE) Ventilate the area before entry. Do not breathe mist, vapours and/or spray.

**Emergency Procedures** 

As an immediate precautionary measure, isolate spill or leak area for at least 50
meters (150 feet) in all directions. No emergency procedures are expected to be
necessary if material is used under ordinary conditions as recommended.

### **Environmental precautions**

LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.
 SMALL SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

## Methods and material for containment and cleaning up

Containment/Clean-up Measures

 Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

All equipment used when handling the product must be grounded.

LARGE SPILLS: Dike far ahead of spill for later disposal.

SMALL SPILLS: Take up with sand or other non-combustible absorbent material and

place into containers for later disposal.

## Section 7 - Handling and Storage

#### Precautions for safe handling

Handling

 Avoid contact with heat and ignition sources and oxidizers – No Smoking. Avoid contact with skin, eyes, and clothing. Use only in well ventilated areas. Do not breathe mist, vapours and/or spray.

# Conditions for safe storage, including any incompatibilities

Storage

 Store in a well-ventilated place. Keep container tightly closed. Avoid contact with heat and ignition sources. Do not use sparking tools.

# Section 8 - Exposure Controls/Personal Protection

## Control parameters

		Exposure	Limits/Guidelines	
	Result	ACGIH	NIOSH	OSHA
Isopropyl alcohol (67-63-0)	TWAs	200 ppm TWA	400 ppm TWA; 980 mg/m3 TWA	400 ppm TWA; 980 mg/m3 TWA
	STELs	400 ppm STEL	500 ppm STEL; 1225 mg/m3 STEL	Not established

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Xylene	TWAs	100 ppm TWA	Not established	100 ppm TWA; 435 mg/m3 TWA
(1330-20-7)	STELs	150 ppm STEL	Not established	Not established

## **Exposure controls**

Engineering Measures/Controls  Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use only with adequate ventilation to keep exposures (airborne levels of dust, fume, vapor etc) below recommended exposure limits.

#### **Personal Protective Equipment**

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

Wear safety glasses.

Hands

Wear appropriate gloves.

Skin/Body

· No data available.

General Industrial Hygiene Considerations

 Wash thoroughly with soap and water after handling. When using do not smoke, eat, or drink. Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure** 

**Controls** 

· Follow best practice for site management and disposal of waste.

## Section 9 - Physical and Chemical Properties

## Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Water white to pale yellow solvent blend.
Color	Water-white to pale yellow.	Odor	Solvent
Odor Threshold	No data available		
General Properties		•	
Boiling Point	160 F(71.1111 C)	Decomposition Temperature	No data available
Specific Gravity/Relative Density	0.79 to 0.804 @ 60 F(15.5556 C) Water=1	Water Solubility	Appreciable 10 to 99 %
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 (Wt.)	100 %
VOC (Vol.)	100 %	Volatiles (Wt.)	100 %
Volatiles (Vol.)	100 %		
Flammability			
Flash Point	-19 F(-28.3333 C) TCC (Tagliabue Closed Cup)	UEL	15.1 %
LEL	2.5 %	Autoignition	435.2 F(224 C)

# Section 10: Stability and Reactivity

# Reactivity

· No dangerous reaction known under conditions of normal use.

# **Chemical stability**

Stable

## Possibility of hazardous reactions

· Hazardous polymerization not indicated.

## Conditions to avoid

 Store below 150 F. Do not apply heat or flame to container. Keep separate from strong oxidizing agents.

# Incompatible materials

· Strong oxidants.

# Hazardous decomposition products

· Carbon dioxide and carbon monoxide under incomplete combustion.

# Section 11 - Toxicological Information

# Information on toxicological effects

		Components
Xylene (0% TO 20%)	1330- 20-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4300 mg/kg; Liver:Other changes; Kidney, Ureter, and Bladder:Other changes; Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Inhalation-Man LCL0 • 10000 ppm 6 Hour(s); Behavioral:General anesthetic; Lungs, Thorax, or Respiration:Cyanosis; Blood:Other changes; Inhalation-Human TCL0 • 200 ppm; Sense Organs and Special Senses:Eye:Conjunctive irritation; Lungs, Thorax, or Respiration:Other changes; Skin-Rabbit LD50 • >1700 mg/kg; Irritation: Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rabbit TCL0 • 1 g/m³ 24 Hour(s)(7-20D preg); Reproductive Effects:Effects on Fertility:Abortion; Inhalation-Rat TCL0 • 50 mg/m³ 6 Hour(s)(1-21D preg); Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue)
Isopropyl alcohol (0% TO 20%)	67- 63-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5000 mg/kg; Behavioral:General anesthetic; Inhalation-Rat LC50 • 16000 ppm 8 Hour(s); Inhalation-Guinea Pig TCLo • 980 mg/m³ 24 Hour(s); Sense Organs and Special Senses:Ear.Other; Behavioral:General anesthetic; Lungs, Thorax, or Respiration:Other changes; Skin-Rabbit LD50 • 12800 mg/kg; Irritation: Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg • Mild irritation; Multi-dose Toxicity: Inhalation-Mouse TCLo • 5000 ppm 6 Hour(s) 13 Week(s)-Intermittent; Behavioral:Somnolence (general depressed activity); Liver.Changes in liver weight; Blood:Pigmented or nucleated red blood cells; Inhalation-Rat TCLo • 1000 mg/m³ 6 Hour(s) 4 Week(s)-Intermittent; Sense Organs and Special Senses:Eye:Optic nerve neuropathy; Inhalation-Rat TCLo • 500 mg/m³ 4 Hour(s) 122 Day(s)-Intermittent; Liver.Multiple effects; Kidney, Ureter, and Bladder.Other changes; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Inhalation-Rat TCLo • 20 mg/m³ 24 Hour(s) 90 Day(s)-Continuous; Brain and Coverings:Other degenerative changes; Lungs, Thorax, or Respiration:Other changes; Liver.Multiple effects; Inhalation-Rat TCLo • 100 mg/m³ 4 Hour(s) 17 Week(s)-Intermittent; Kidney, Ureter, and Bladder.Other changes in urine composition; Blood:Changes in serum composition (e.g., TP, bilirubin cholesterol); Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:True cholinesterase; Mutagen: Cytogenetic analysis • Inhalation-Rat • 1030 µg/m³ 16 Week(s)-Intermittent; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Inhalation-Rat TCLo • 10000 ppm 7 Hour(s)(1-19D preg); Reproductive Effects:Effects on Fertility:Pre-implantation mortality; Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on Fertility:Post-
Meth Tert Butyl Ether (0% TO 60%)	1634- 04-4	Acute Toxicity: Ingestion/Oral-Mouse LD50 • 3665 mg/kg; Ingestion/Oral-Rat LD50 • 4 g/kg; Inhalation-Rat LC50 • 41000 mg/m³ 4 Hour(s)

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • Data lacking

Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2	
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Inhalation 4 - ATEmix (Inhl) = 7083 ppmV	
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1	
Carcinogenicity	OSHA HCS 2012 • Data lacking	
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2	
Skin sensitization OSHA HCS 2012 • Data lacking		
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2	
STOT-SE  OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Na Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irrita		
Toxicity for Reproduction OSHA HCS 2012 • Toxic to Reproduction 1B		
Germ Cell Mutagenicity OSHA HCS 2012 • Germ Cell Mutagenicity 2		

## **Potential Health Effects**

#### Inhalation

Acute (Immediate)

May cause respiratory irritation. May affect the central nervous system. Symptoms
may include dizziness, drowsiness, lethargy, coma and death. Under normal
conditions of use, no health effects are expected.

Chronic (Delayed)

 Repeated and prolonged exposure may be harmful. Repeated and prolonged exposure may cause cancer.

#### Skin

Acute (Immediate)

- May cause irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death. May cause mild irritation.
- Chronic (Delayed)
- Repeated and prolonged exposure may be harmful. Repeated and prolonged exposure may cause irritation.

#### Eye

Acute (Immediate)

- May cause irritation. Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)
- Under normal conditions of use, no health effects are expected.

Ingestion

Acute (Immediate)

- May be fatal. May be harmful. 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)
- Under normal conditions of use, no health effects are expected.

# Section 12 - Ecological Information

# **Toxicity**

No data available

## Persistence and degradability

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

# Bioaccumulative potential

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

## Mobility in Soil

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

### Other adverse effects

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

#### **Ecological Fate**

No data available.

**Potential Environmental** 

No data available.

**Effects** 

## Section 13 - Disposal Considerations

## 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

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
LOT	NDA	ORM-D	3	III	NDA
DOT	NDA	ORM-D	NDA	NDA	NDA

**Special precautions for user** • None specified. No special precautions.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

· No data available

# Section 15 - Regulatory Information

## Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications • Acute, Chronic, Fire

Inventory				
Component	CAS	TSCA		
Isopropyl alcohol	67-63-0	Yes		
Meth Tert Butyl Ether	1634-04-4	Yes		
Xylene	1330-20-7	Yes		

#### **United States**

l.S OSHA - Process Safety Management - Highly	Hazardous Chemicals	
Isopropyl alcohol	67-63-0	Not Listed
Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
S OSHA - Specifically Regulated Chemicals		
Isopropyl alcohol	67-63-0	Not Listed
Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed

· Isopropyl alcohol	67-63-0	Not Listed
Xylene	1330-20-7	(isomers and mixtures)
Meth Tert Butyl Ether	1634-04-4	(listed under Methyl tert but ether)
J.S CAA (Clean Air Act) - Accidental Release Prevention - Flammable Su		
Isopropył alcohol	67-63-0	Not Listed
Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
J.S CAA (Clean Air Act) - Accidental Release Prevention - Toxic Substan		
Isopropyl alcohol	67-63-0	Not Listed
Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
J.S CERCLA/SARA - Hazardous Substances and their Reportable Quantit		
Isopropyl alcohol	67-63-0	Not Listed
Xylene	1330-20-7	100 lb final RQ; 45.4 kg fina RQ
Meth Tert Butyl Ether	1634-04-4	1000 lb final RQ; 454 kg fina RQ
l.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA	A RQs	
isopropyl aicohol	67-63-0	Not Listed
Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Isopropyl alcohol	67-63-0	Not Listed
Xyiene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
.S CERCLA/SARA - Section 313 - Emission Reporting		
		1.0 % de minimis
Isopropyl alcohol	67-63-0	concentration (only if manufactured by the strong
isopropyr accords	01-03-0	acid process, no supplier
		notification)
Xylene	1330-20-7	1.0 % de minimis concentration
Meth Tert Butyl Ether	1634-04-4	1.0 % de minimis concentration
.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Isopropyl alcohol	67-63-0	Not Listed
Xylene	1330-20-7	Not Listed Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
S CWA (Clean Water Act) - Hazardous Substances		
Isopropyl alcohol	67-63-0	Not Listed
Xylene Xylene	1330-20-7	
Meth Tert Butyl Ether	1634-04-4	Not Listed

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Isopropyl alcohol	67-63-0	Not Listed	
• Xylene	1330-20-7	Not Listed	
Meth Tert Butyl Ether	1634-04-4	Not Listed	

#### United States - California

nvironment			····
U.S California - Proposition 65 - Carcinogens List			
Isopropyl alcohol	67-63-0	Not Listed	
Xylene	1330-20-7	Not Listed	
Meth Tert Butyl Ether	1634-04-4	Not Listed	
U.S California - Proposition 65 - Developmental Toxicity			
Isopropyl alcohol	67-63-0	Not Listed	
Xylene	1330-20-7	Not Listed	
Meth Tert Butyl Ether	1634-04-4	Not Listed	
U.S California - Proposition 65 - Maximum Allowable Dose Levels	(MADL)	*	
Isopropyl alcohol	67-63-0	Not Listed	
• Xylene	1330-20-7	Not Listed	
Meth Tert Butyl Ether	1634-04-4	Not Listed	
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)			
Isopropyi alcohol	67-63-0	Not Listed	
• Xylene	1330-20-7	Not Listed	
Meth Tert Butyl Ether	1634-04-4	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Female			
Isopropyl alcohol	67-63-0	Not Listed	
• Xylene	1330-20-7	Not Listed	
Meth Tert Butyl Ether	1634-04-4	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Male			
Isopropyl alcohol	67-63-0	Not Listed	
• Xylene	1330-20-7	Not Listed	
Meth Tert Butyl Ether	1634-04-4	Not Listed	

## **Section 16 - Other Information**

**Revision Date** 

**Last Revision Date** 

**Preparation Date** 

Other Information

Disclaimer/Statement of Liability

• 04/August/2015

04/August/2015

• 04/August/2015

• Schedule B Number: 2909.19.1400.

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recommendations in the specific context of the intended use to determine whether

they are appropriate.