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.

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.

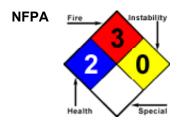
Supplemental information • 0 - 15 percent of this product consists of an ingredient of unknown toxicity.

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

	Composition					
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)	OSHA HCS 2012: Flam. Liq. 3; Acute Tox. 4 (Inhl); Skin Irrit. 2; Irrit. 2; Repr. 1B (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit		
			Skin-Rabbit LD50 • >1700 mg/kg			
		0% TO 20%	Skin-Rabbit LD50 • 12800 mg/kg			
Isopropyl alcohol	CAS :67-63-		Ingestion/Oral-Rat LD50 • 5000 mg/kg	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)		
			Inhalation-Rat LC50 • 72600 mg/m³			

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.

Hazardous Combustion

Products

Vapor explosion hazard indoors, outdoors or in sewers.

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	
isopropyr alcorior	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

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

Hands

Wear safety glasses.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 LCLo • 10000 ppm 6 Hour(s); Behavioral:General anesthetic; Lungs, Thorax, or Respiration:Cyanosis; Blood:Other changes; Inhalation-Human TCLo • 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 TCLo • 1 g/m³ 24 Hour(s)(7-20D preg); Reproductive Effects:Effects on Fertility:Abortion; Inhalation-Rat TCLo • 50 mg/m³ 6 Hour(s)(1-21D preg); Reproductive Effects:Effects on Fertility:Postimplantation 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)

cation
ICS 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: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
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)

Chronic (Delayed)

• May cause irritation. Under normal conditions of use, no health effects are expected.

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

Potential Environmental

No data available.

Effects

· No data available.

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
DOT	NDA	ORM-D	3	III	NDA
	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

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

Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
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 butyl ether)
U.S CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substanc	es	
Isopropyl alcohol	67-63-0	Not Listed
• Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
U.S CAA (Clean Air Act) - Accidental Release Prevention - Toxic Substances		
Isopropyl alcohol	67-63-0	Not Listed
• Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
Isopropyl alcohol	67-63-0	Not Listed
• Xylene	1330-20-7	100 lb final RQ; 45.4 kg final RQ
Meth Tert Butyl Ether	1634-04-4	1000 lb final RQ; 454 kg final RQ
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Isopropyl alcohol	67-63-0	Not Listed
Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Isopropyl alcohol	67-63-0	Not Listed
• Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		400/4
Isopropyl alcohol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong 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
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
Isopropyl alcohol	67-63-0	Not Listed
• Xylene	1330-20-7	Not Listed
Meth Tert Butyl Ether	1634-04-4	Not Listed
U.S CWA (Clean Water Act) - Hazardous Substances		
Isopropyl alcohol	67-63-0	Not Listed
• Xylene	1330-20-7	
Meth Tert Butyl Ether	1634-04-4	Not Listed
U.S CWA (Clean Water Act) - Toxic Pollutants		

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

Environment			
 U.S California - Proposition 65 - Carcinogens List Isopropyl alcohol Xylene Meth Tert Butyl Ether 	07.00.0		
	67-63-0	Not Listed Not Listed	
	1330-20-7		
	1634-04-4	Not Listed	
U.S California - Proposition 65 - Developmental Toxicity			
Isopropyl alcoholXyleneMeth Tert Butyl Ether	67-63-0	Not Listed	
	1330-20-7	Not Listed Not Listed	
	1634-04-4		
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)			
Isopropyl alcoholXyleneMeth Tert Butyl Ether	67-63-0	Not Listed	
	1330-20-7	Not Listed	
	1634-04-4	Not Listed	
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)			
Isopropyl alcohol	67-63-0	Not Listed	
Xylene Meth Tert Butyl Ether	1330-20-7	Not Listed	
	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

• 04/August/2015

• 04/August/2015

04/August/2015

Other Information

• Schedule B Number: 2909.19.1400.

Disclaimer/Statement of Liability

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recommendations in the specific context of the intended use to determine whether
they are appropriate.