

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 09/30/2014 Date of issue: 09/30/2014

SECTION 1: IDENTIFICATION

<u>Product Identifier</u> Product Form: Mixture Product Name: Starbrite Startron Gas Fuel Additive

Product Code: 930XX

Intended Use of the Product

Use of the Substance/Mixture: Fuel Additive.

Name, Address, and Telephone of the Responsible Party

Company

Star brite Inc. 4041 SW 47th Avenue Fort Lauderdale, FL 33314 (954)587-6280

www.starbrite.com

Emergency Telephone Number

Emergency Number : US: (800) 424-9300; International: (703) 527-3887 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

(GHS-US)Flam. Liq. 4H227Skin Irrit. 2H315STOT SE 3H336Asp. Tox. 1H304Label ElementsGHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)	: Danger
Hazard Statements (GHS-US)	: H227 - Combustible liquid.
	H304 - May be fatal if swallowed and enters airways.
	H315 - Causes skin irritation.
	H336 - May cause drowsiness or dizziness.
Precautionary Statements (GHS-US)	: P210 - Keep away from sparks, open flames, hot surfaces, heat No smoking.
	P261 - Avoid breathing fume/mist/vapors/spray.
	P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves, protective clothing, eye protection.
	P301+P310 - If swallowed: Immediately call a poison center or doctor.
	P302+P352 - If on skin: Wash with plenty of soap and water.
	P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position
	comfortable for breathing.
	P312 - Call a poison center/doctor if you feel unwell.
	P321+P331 - Specific treatment (see section 4). Do NOT induce vomiting.
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P362 - Take off contaminated clothing and wash before reuse.
	P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide
	(CO ₂) to extinguish.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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P403+P235+P405 - Store in a well-ventilated place. Keep cool. Store locked up. P501 - Dispose of contents/container according to local, regional, national, territorial,

provincial, and international regulations.

Other Hazards Prolonged or repeated exposure may cause skin dryness or cracking.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	90 - 95	Flam. Liq. 4, H227
			Asp. Tox. 1, H304
Kerosine, petroleum	(CAS No) 8008-20-6	1 - 5 or 5 - 10	Flam. Liq. 3, H226
			Skin Irrit. 2, H315
			STOT SE 3, H336
			Asp. Tox. 1, H304
Kerosine, petroleum, hydrodesulfurized	(CAS No) 64742-81-0	1 - 5 or 5 - 10	Flam. Liq. 3, H226
			Skin Irrit. 2, H315
			STOT SE 3, H336
			Asp. Tox. 1, H304

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). **Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Vapors may cause drowsiness and dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. **Inhalation:** May cause drowsiness or dizziness.

Skin Contact: Causes skin irritation.

Eye Contact: May cause minor eye irritation.

Ingestion: May be fatal if swallowed and enters airways.

Chronic Symptoms: Prolonged or repeated exposure may cause skin dryness or cracking.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Any material aspirated during vomiting may cause lung injury. Avoid emesis. If stomach contents must be evacuated use method least likely to result in aspiration.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: May form flammable/explosive vapor-air mixture.

Reactivity: Reacts with strong oxidants causing fire and explosion hazard.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO2).

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Reference to Other Sections Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid breathing (dust, vapor, mist, gas). Use only outdoors or in a well-ventilated area.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Eliminate ignition sources. Ventilate area.

Environmental Precautions Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Use only non-sparking tools.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container tightly closed. Store locked up.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s) Fuel Additive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Kerosine, petroleum (8008-2	20-6)	
USA ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³ (application restricted to conditions in which there
		are negligible aerosol exposures)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	100 mg/m ³
Alberta	OEL TWA (mg/m ³)	200 mg/m ³
British Columbia	OEL TWA (mg/m³)	200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures)
Manitoba	OEL TWA (mg/m³)	200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures)
Newfoundland & Labrador	OEL TWA (mg/m³)	200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures)
Nova Scotia	OEL TWA (mg/m³)	200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures)
Ontario	OEL TWA (mg/m³)	200 mg/m ³ (restricted to conditions where there is negligible aerosol exposure)
Prince Edward Island	OEL TWA (mg/m ³)	200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures)
Saskatchewan	OEL STEL (mg/m ³)	250 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	200 mg/m ³
Kerosine, petroleum, hydrod	desulfurized (64742-81-0)	
USA ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³ (application restricted to conditions in which

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		there are negligible aerosol exposures)
Alberta	OEL TWA (mg/m³)	200 mg/m ³
Manitoba	OEL TWA (mg/m ³)	200 mg/m ³ (application restricted to conditions in which
		there are negligible aerosol exposures)
Newfoundland & Labrador	OEL TWA (mg/m³)	200 mg/m ³ (application restricted to conditions in which
		there are negligible aerosol exposures)
Nova Scotia	OEL TWA (mg/m³)	200 mg/m ³ (application restricted to conditions in which
		there are negligible aerosol exposures)
Ontario	OEL TWA (mg/m³)	200 mg/m ³ (restricted to conditions where there is
		negligible aerosol exposure)
Prince Edward Island	OEL TWA (mg/m³)	200 mg/m ³ (application restricted to conditions in which
		there are negligible aerosol exposures)
Saskatchewan	OEL STEL (mg/m³)	250 mg/m ³
Saskatchewan	OEL TWA (mg/m³)	200 mg/m ³
Petroleum distillates, hydro	treated light (64742-47-8)	
British Columbia	OEL TWA (mg/m³)	200 mg/m ³ (application restricted to conditions in which
		there are negligible aerosol exposures)

Exposure Controls

Appropriate Engineering Controls: Proper grounding procedures to avoid static electricity should be followed. Take precautionary measures against static discharges. Gas detectors should be used when flammable gases/vapors may be released. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Full protective flameproof clothing. Gloves. High gas/vapor concentration: gas mask.



]Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

Other Information: When using, do not eat, drink or smoke

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties			
Physical State	: Liquid		
Appearance	: Clear		
Odor	: Not available		
Odor Threshold	: Not available		
рН	: Not available		
Evaporation Rate	: Not available		
Melting/Freezing Point	: - 42 °C (-44°F) (107.60 °F)		
Boiling Point	: Not available		
Flash Point	: 69 °C (156°F) (156.20 °F)		
Auto-ignition Temperature	: Not available		
Decomposition Temperature	: Not available		
Flammability (solid, gas)	: Not available		
Lower Flammable Limit	: Not available		
Upper Flammable Limit	: Not available		
Vapor Pressure	: Not available		
Relative Vapor Density at 20 °C	: Not available		
Relative Density/Specific Gravity	: Not available		

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Solubility	:	Not available
Partition Coefficient: N-octanol/water	:	Not available
Viscosity	:	Not available
Explosion Data – Sensitivity to Mechanical Impact	:	Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	:	Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

SECTION 10: STABILITY AND REACTIVITY	
Reactivity: Reacts with strong oxidants causing fire and ex	•
	n flammable/explosive vapor-air mixture.
Possibility of Hazardous Reactions: Hazardous polymerize	
Conditions to Avoid: Direct sunlight. Extremely high or low	
Incompatible Materials: Strong acids. Strong bases. Strong	-
Hazardous Decomposition Products: Carbon oxides (CO, C	CO ₂).
SECTION 11: TOXICOLOGICAL INFORMATION	
Information on Toxicological Effects - Product	
Acute Toxicity: Not classified	
LD50 and LC50 Data: Not available	
Skin Corrosion/Irritation: Causes skin irritation.	
Serious Eye Damage/Irritation: Not classified	
Respiratory or Skin Sensitization: Not classified	
Germ Cell Mutagenicity: Not classified	
Teratogenicity: Not available	
Carcinogenicity: Not classified	
Specific Target Organ Toxicity (Repeated Exposure): Not cla	ssified
Reproductive Toxicity: Not classified	ц р
Specific Target Organ Toxicity (Single Exposure): May cause Aspiration Hazard: May be fatal if swallowed and enters airv	
Symptoms/Injuries After Inhalation: May cause drowsiness	•
Symptoms/Injuries After Skin Contact: Causes skin irritation	
Symptoms/Injuries After Eye Contact: May cause minor eye	
Symptoms/Injuries After Ingestion: May be fatal if swallowe	
Information on Toxicological Effects - Ingredient(s)	
LD50 and LC50 Data:	
Kerosine, petroleum (8008-20-6)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5.28 mg/l/4h
Kerosine, petroleum, hydrodesulfurized (64742-81-0)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5.2 mg/l/4h
Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5.2 mg/l/4h
SECTION 12: ECOLOGICAL INFORMATION	
Toxicity Not classified	
Kerosine, petroleum (8008-20-6)	
NOEC chronic fish 0.098 mg/l (PETRO	DTOX, Klimmish score: 2)
Kerosine, petroleum, hydrodesulfurized (64742-81-0)	
LC50 Fish 1 45 mg/l (Exposure	time: 96 h - Species: Pimephales promelas [flow-through])
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	720 mg/l (Exposure time: 48 h - Species: Den-dronereides heteropoda)		
LC 50 Fish 2 1	740 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])		
Petroleum distillates, hydrotreated light (6	4742-47-8)		
LC50 Fish 1 4	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
LC 50 Fish 2 2	.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])		
Persistence and Degradability Not estab	lished		
Bioaccumulative Potential			
Kerosine, petroleum, hydrodesulfurized (64	4742-81-0)		
BCF Fish 1 6	1 - 159		
Petroleum distillates, hydrotreated light (6	4742-47-8)		
BCF Fish 1 6	1 - 159		
Mobility in Soil Not available			
Other Adverse Effects			
Other Information: Avoid release to the env	<i>v</i> ironment.		
SECTION 13: DISPOSAL CONSIDERAT	IONS		
Waste Disposal Recommendations: Dispose	e of waste material in accordance with all local, regional, national, provincial, territorial		
and international regulations.			
Additional Information: Handle empty cont	ainers with care because residual vapors are flammable.		
SECTION 14: TRANSPORT INFORMAT	ION		
In Accordance With ICAO/IATA/DOT/T	DG		
<u>UN Number</u>			
DOT NA no. : NA1993	3		
UN Proper Shipping Name			
Proper Shipping Name (DOT)	: COMBUSTIBLE LIQUID, N.O.S. (Petroleum distillates, hydrotreated light)		
Transport Document Description (DOT)	: NA1993 COMBUSTIBLE LIQUID, N.O.S. (Petroleum distillates, hydrotreated		
	light), 3, III		
Transport Hazard Class(es)			
Department Of Transportation (DOT) Haza	rd Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120		
DOT Symbols	: D - Proper shipping name for domestic use only,G - Identifies PSN requiring		
	a technical name		
Packing Group (DOT)	: III - Minor Danger		
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal		
DOT Packaging Exceptions (49 Cfr 173.xxx) DOT Packaging Non Bulk (49 Cfr 173.xxx) DOT Packaging Bulk (49 Cfr 173.xxx) <u>Additional Information</u> Emergency Response Guide (ERG) Number Other Information	 150 203 241 128 This product meets the limited quantities exception as follows: DOT: Not regulated as dangerous goods except when transported by air or shipped in quantities greater than or equal to 5L. Otherwise, the above descriptions apply. 		

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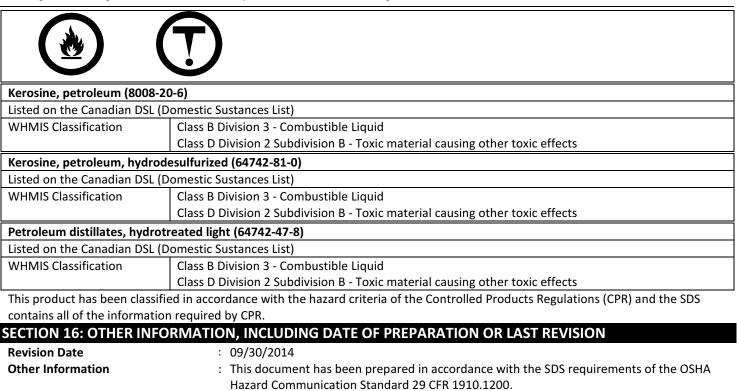
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In Accordance with IMDG	Not regulated for transport				
Marine Pollutant	: No				
In Accordance with IATA	Not regulated for transport				
In Accordance with TDG	Not regulated for transport				
SECTION 15: REGULATORY					
US Federal Regulations					
Starbrite Startron Gas Fuel A	dditive				
SARA Section 311/312 Hazard		Fire hazard			
,		Immediate (acute) health hazard			
Kerosine, petroleum (8008-20)-6)	· ·			
	CA (Toxic Substances Control Act)) inventory			
Kerosine, petroleum, hydrode		,			
	CA (Toxic Substances Control Act)	inventory			
Petroleum distillates, hydrotr					
	CA (Toxic Substances Control Act)	inventory			
SARA Section 311/312 Hazard		Fire hazard			
		Immediate (acute) health hazard			
US State Regulations					
Kerosine, petroleum (8008-20)-6)				
U.S Connecticut - Hazardous	•				
U.S Connecticut - Hazardous	Air Pollutants - HLVs (8 hr)				
U.S Massachusetts - Oil & Ha	azardous Material List - Groundw	ater Reportable Concentration - Reporting Category 1			
U.S Massachusetts - Oil & Ha	azardous Material List - Groundwa	ater Reportable Concentration - Reporting Category 2			
	azardous Material List - Reportab	•			
		rtable Concentration - Reporting Category 1			
		rtable Concentration - Reporting Category 2			
RTK - U.S Massachusetts - Ri	-				
U.S Minnesota - Chemicals o	-				
	ated Toxic Air Pollutants - Ambien ated Toxic Air Pollutants - Ambien				
	Prevention - List of Hazardous Sub				
, ,	ntal Hazardous Substances List	istalices			
	to Know Hazardous Substance List	st			
	tants - Guideline Concentrations -				
U.S California - Safer Consun	ner Products - Initial List of Candi	date Chemicals and Chemical Groups			
RTK - U.S Pennsylvania - RTK	(Right to Know) List				
U.S Texas - Effects Screening	; Levels - Long Term				
U.S Texas - Effects Screening	; Levels - Short Term				
Kerosine, petroleum, hydrode					
U.S Texas - Effects Screening					
U.S Texas - Effects Screening	; Levels - Short Term				
Petroleum distillates, hydrotr					
	ated Toxic Air Pollutants - Ambien				
	ited Toxic Air Pollutants - Ambien	t Air Levels (AALs) - Annual			
U.S Texas - Effects Screening Levels - Long Term					
U.S Texas - Effects Screening	; Levels - Short Term				
Canadian Regulations					
Starbrite Startron Gas Fuel A					
WHMIS Classification	Class B Division 3 - Combustible	•			
1	Clean D. Division 7 Culadivision D	Toxic motorial cousing other toxic offects			

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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GHS Full Text Phrases:

Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
•	sure could cause irritation but only minor residual injury even if no ent is given.



Party Responsible for the Preparation of This Document

with water.

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Starbrite[®]

Phone Number: (954)587-6280

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS