

# SAFETY DATA SHEET

**Issuing Date** No data available

Revision Date 31-Dec-2016

**Revision Number** 1

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier			
Product Name	260 GT Plus with Ethanol		
Other means of identification			
Product Code(s)	135300		
UN/ID no.	3475		
Synonyms	Oxygenated unleaded racing gasoline		
Recommended use of the chemical	and restrictions on use		
Recommended Use	Liquid: automotive refuelling. California Air Resources Board (CARB): This product cannot be sold, offered for sale, supplied or offered for supply for motor vehicles in California except in competition racing vehicles. Not Legal For Use in Any Other Motor Vehicle.		
Uses advised against	No information available		
Details of the supplier of the safety data sheet			
Supplier Address Sunoco LP 3801 West Chester Pike Newtown Square Pennsylvania 19073 Sunoco Race Fuels email: performanceproducts@sunoco.com http://www.Sunocoracefuels.com			
Emergency telephone number			
Company Phone Number	Product Safety Information 1-888-567-3066 Email sunocomsds@sunoco.com		
24 Hour Emergency Phone Number	· Sunoco LP: (800) 964-8861		
Emergency Telephone	Chemtrec 1-800-424-9300 24 Hour Emergency Phone Number		

# 2. HAZARDS IDENTIFICATION

### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 2

### Label elements

### Danger

Hazard statements Causes skin irritation Suspected of damaging fertility or the unborn child May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure (central nervous system, liver, kidney, respiratory system and cardiovascular system) May be fatal if swallowed and enters airways Highly flammable liquid and vapor



Appearance Clear Liquid

Physical state liquid

Odor Gasoline

### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use spark-proof tools and explosion-proof equipment Take precautionary measures against static discharge

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting In case of fire: Use CO2, dry chemical, or foam for extinction

### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

static accumulator Vapors may form explosive mixture with air

### Other Information

EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### Substance

Not applicable.

Mixture

Synonyms

Oxygenated unleaded racing gasoline.

Chemical name	CAS No.	Weight-%	Trade secret
Isooctane	540-84-1	30-50	*
Toluene	108-88-3	30-40	*
Isopentane	78-78-4	10-20	*
Ethyl alcohol	64-17-5	11-15	*
Xylene	1330-20-7	.01-0.013	*
Hexane	110-54-3	0.001-0.01	*
Ethylbenzene	100-41-4	0.001-0.01	*
Benzene	71-43-2	0.002-0.01	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

### **Description of first aid measures**

• • • • • • • • • • • • • • • • • • •			
Inhalation	Remove to fresh air. Give artificial respiration if victim is not breathing. If breathing is difficult, administer oxygen. Get immediate medical advice/attention.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin contact	Wash skin with soap and water for 20 minutes. Remove and isolate contaminated clothing and shoes. Get immediate medical advice/attention. Injection injuries may not appear serious at first but within a few hours, without proper treatment, the area will become swollen, discolored and extremely painful. Following injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss. Wash contaminated clothing before reuse.		
Ingestion	If swallowed, call a poison control center or physician immediately. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Do NOT induce vomiting.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms	Causes headache, drowsiness or other effects to the central nervous system. Dizziness. Disorientation. Aspiration can cause nausea and vomitting.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	A patient adversely affected by exposure to this product should not be given adrenaline (epinephrine) or similar heart stimulant since these would increase the risk of cardiac arrhythmias. Aspiration hazard if swallowed. Can enter lungs and cause damage.		

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	In case of fire: Use CO2, dry chemical, or foam for extinction. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire, cool tanks with water spray.	
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.	
Specific hazards arising from the chemical	No information available.	
Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	None. EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. Vapors can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. static accumulator. Vapors can form explosive mixtures with air. May be ignited by friction, heat, sparks or flames.	
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing vapors or mists. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.	
Methods and material for containm	ent and cleaning up_	
Methods for containment	Prevent further leakage or spillage if safe to do so. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.	
Methods for cleaning up	Pick up and transfer to properly labeled containers. Use clean non-sparking tools to collect absorbed material.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Avoid breathing dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Do not siphon by mouth. Static charges can accumulate during shipping, unloading, pouring or conveying. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards associated with electrostatic charges. In addition to bonding and grounding, efforts to mitigate the hazards of an electrostatic discharge may include, but are not limited to, ventilation, inerting and/or

reduction of transfer velocities. Always keep the nozzle in contact with the container throughout the loading process. Do not fill any portable containers in or on a vehicle. Special precautions, such as reduced loading rates and increased monitoring, must be observed during "switch loading" operations (i.e. loading this material in tanks or shipping compartments that previously contained middle distillates or similar products). Non-equilibrium conditions may increase the risks associated with static electricity such as tank and container filling, tank cleaning, sampling, gauging, loading, filtering, mixing, agitation, etc. Dissipation of electrostatic charges may be improved with the use of conductivity additives when used with other mitigating efforts, including bonding and grounding. Empty containers may contain product residue. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers. Dispose of empty containers and wastes safely.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Dispose of empty containers and wastes safely. NFPA Class 1B Storage.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isooctane 540-84-1	TWA: 300 ppm	-	-
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup>
Isopentane 78-78-4	TWA: 1000 ppm	-	-
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	-
Hexane 110-54-3	TWA: 50 ppm	TWA: 500 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m³
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 125 ppm STEL: 545 mg/m <sup>3</sup>
Benzene 71-43-2	STEL: 2.5 ppm TWA: 0.5 ppm	TWA: 10 ppm applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028 TWA: 1 ppm Ceiling: 25 ppm STEL: 5 ppm see 29 CFR 1910.1028	IDLH: 500 ppm TWA: 0.1 ppm STEL: 1 ppm

### Appropriate engineering controls

**Engineering controls** 

Ensure that eyewash stations and safety showers are close to the workstation location.

Handle product only in closed system or provide appropriate exhaust ventilation. Use with local exhaust ventilation. Use explosion-proof ventilating equipment.

### Individual protection measures, such as personal protective equipment

Eye/face protection	protection Wear safety glasses with side shields (or goggles). Face protection shield.	
Hand Protection	Wear suitable gloves. Break though time: >8 hours. Nitrile rubber. Viton™. Teflon.	
Skin and body protection	If there is a risk of contact:. Impervious clothing. Protective shoes or boots. Nitrile rubber. Viton™. Teflon.	
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable for exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	
Appearance	Clear Liquid	
Odor	Gasoline	
Color	clear	
Odor threshold	<1 ppm	
	· • •	
Property	Values	Remarks • Method
pH	No data available	Not applicable
Melting point / freezing point	No data available	None known
Boiling point / boiling range	38 - 127 °C / 100 - 260 °F	ASTM D 86
Flash point	-40 °C / -40 °F	Reference value
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		Reference value
Upper flammability limit:	7.6	
Lower flammability limit:	1.5	
Vapor pressure	5-16 psia	Reference value
Vapor density	No data available	None known
Relative density	0.76	ASTM D 287
Water solubility	NIL - 15%	Reference value
Solubility in other solvents	No data available	None known
Partition coefficient	2 - 7	Reference value
Autoignition temperature	280 °C / 536 °F	Reference value
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	
Other Information		
Softening point	No information available	
Molecular weight	No information available	

VOC Content (%) Liquid Density Bulk density	100% (Reference value) No information available No information available	
	10. STABILITY AND REACTIVITY	

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Vapors can form explosive mixtures with air.
Incompatible materials	Strong oxidizing agents, strong acids, and strong bases. Halogens. Halogenated compounds. Peroxides. Chlorine.

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2). Asphyxiants.

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= 7060 mg/kg (Rat)

# **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

#### **Product Information**

	Inhalation Specific test data for the substance or mixture is not available.					
	<b>Eye contact</b> Specific test data for the substance or mixture is not available.			ble.		
	Skin contact Specific test data for the substance or mixture is not available.			ble.		
	Ingestion	Specific test data for the s	Specific test data for the substance or mixture is not available.			
lr	formation on toxicological eff	ects_				
S	Symptoms Causes headache, drowsiness or other effects to the central nervous system. Dizziness. Disorientation. Skin irritation. Erythema (skin redness). Aspiration can cause nausea and vomitting.					
N	Numerical measures of toxicity					
A	cute toxicity					
т	The following values are calculated based on chapter 3.1 of the GHS document .ATEmix (oral)4,293.00ATEmix (dermal)4,367.00ATEmix (inhalation-dust/mist)17.00					
Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity						
	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50		
Γ	Isooctane 540-84-1	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 14.38 mg/L (Rat)4 h		
	Toluene	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat)4 h		

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108-88-3

Isopentane

78-78-4

Ethyl alcohol

 $= 280000 \text{ mg/m}^3$  ( Rat ) 4 h

= 124.7 mg/L (Rat) 4 h

64-17-5			
Xylene 1330-20-7	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)> 1700 mg/kg (Rabbit)	= 29.08 mg/L (Rat)4 h = 5000 ppm (Rat)4 h
Hexane 110-54-3	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat)4 h
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat)4 h
Benzene 71-43-2	= 1800 mg/kg (Rat)= 810 mg/kg (Rat)	> 8200 mg/kg (Rabbit)	= 44.66 mg/L (Rat)4 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Samples of gasoline and a number of low boiling point naphtha streams have been tested in rabbit skin irritation studies. The majority of the data were derived using a 24 hour occluded exposure protocol. The degree of dermal irritation observed was variable, ranging from slight to moderate/severe, normally persisting for up to 14 days. There was no evidence of skin corrosion. Heavier, aromatic materials caused more irritation than lighter, paraffinic streams (API, 1995).			
Serious eye damage/eye irritation	The effects of gasoline and low boiling point naphtha streams on the eye have been investigated in rabbits using a number of samples. None of the samples tested showed more than minimal redness and swelling, which resolved quickly (ARCO, 1986-A).			
Respiratory or skin sensitization	Tests in guinea pigs with gasoline and a number of low boiling point naphtha streams showed no evidence of skin sensitization (ARCO, 1986-B). There are no reports available to indicate that gasoline or low boiling point naphthas have the potential to cause respiratory sensitization.			
Germ cell mutagenicity	The mutagenic potential of gasoline and low boiling point naphthas has been extensively studied in a range of in vivo and in vitro assays. The majority of the studies showed no evidence of mutagenic activity (API, 1977; API, 2005). The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). This note applies only to certain complex coal- and oil-derived substances in Part 3.			
Carcinogenicity	The carcinogenic potential of gasoline has been investigated in rats and mice following inhalation exposure for 2 years. In rats, there was an increased incidence of kidney tumors in males and in mice there was an increased incidence of liver tumors in females; further work has shown that these tumors are sex and species specific and are not considered relevant to humans (Short BG et al., 1989). Results of 2 year skin painting studies with gasoline or low boiling point naphthas have shown either no, or weak potential (low incidence and long latent period) for the development of skin tumors. Additional work has shown that where tumors arise they are most likely a result of a non-genotoxic response due to dermal irritation (API, 1983).			
Chemical name A	CGIH	IARC	NTP	OSHA

Chemical name	ACGIH	IARC	NTP	OSHA
Toluene 108-88-3	-	Group 3	-	-
Xylene 1330-20-7	-	Group 3	-	-
Ethylbenzene 100-41-4	A3	Group 2B	-	Х
Benzene 71-43-2	A1	Group 1	Known	Х

**Reproductive toxicity** 

Results of guideline developmental toxicity studies on gasolines and OECD developmental toxicity screening studies with low boiling point naphtha streams showed no evidence of developmental toxicity in rats (Roberts L et al, 2001). Similarly, studies in rats with gasoline did not show any effect on reproductive performance (McKee RH et al, 2000). Gasoline and low boiling point naphthas can contain amounts of toluene and/or n-hexane, constituents that are classified as reprotoxicants.

### STOT - single exposure

Acute exposure studies show no evidence of systemic toxicity, other than a potential to

STOT - repeated exposureThe repeat dose toxicity of gasoline and low boiling point naphthas has been studied in rats<br/>following dermal and inhalation exposure for periods between 10 days and up to 2 years.<br/>The effects of repeated inhalation exposure of primates to gasoline have also been studied.<br/>In dermal studies, no systemic toxicity has been seen; the only effect observed was<br/>moderate to severe dermal irritation. Repeated inhalation exposure causes light<br/>hydrocarbon nephropathy in male rats, an effect which is considered to be both sex and<br/>species specific. (Halder CA et al, 1985; API, 2005; ARCO, 1986-C).Aspiration hazardGasoline and low boiling point naphthas are low viscosity, mobile hydrocarbon liquids with a<br/>viscosity at 40°C of < 7 mm2/s.</td>

### **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

Not determined.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Toluene 108-88-3	433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 54: 96 h Oryzias latipes mg/L LC50 static 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through		5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50
Isopentane 78-78-4	-	-	-	2.3: 48 h Daphnia magna mg/L EC50
Ethyl alcohol 64-17-5	-	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
Xylene 1330-20-7	-	13.4: 96 h Pimephales promelas mg/L LC50 flow-through 30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 7.711 - 9.591: 96 h	EC50 = 0.0084 mg/L 24 h	0.6: 48 h Gammarus lacustris mg/L LC50 3.82: 48 h water flea mg/L EC50

		Lepomis macrochirus		
		mg/L LC50 static 780: 96 h Cyprinus carpio mg/L		
		LC50 semi-static 780: 96		
		h Cyprinus carpio mg/L		
		LC50 23.53 - 29.97: 96 h		
		Pimephales promelas		
		mg/L LC50 static 2.661 -		
		4.093: 96 h		
		Oncorhynchus mykiss		
		mg/L LC50 static 13.5 -		
		17.3: 96 h Oncorhynchus		
		mykiss mg/L LC50 19: 96		
		h Lepomis macrochirus		
Hexane	-	mg/L LC50 2.1 - 2.98: 96 h		1000: 04 h Dophaia
110-54-3	-	Pimephales promelas	-	1000: 24 h Daphnia magna mg/L EC50
110-34-3		mg/L LC50 flow-through		magna mg/L LC50
Ethylbenzene	4.6: 72 h		EC50 = 9.68 mg/L 30 min	1.8 - 2.4: 48 h Daphnia
100-41-4	Pseudokirchneriella	Oncorhynchus mykiss	EC50 = 96  mg/L 24  h	magna mg/L EC50
100 41 4	subcapitata mg/L EC50	mg/L LC50 static 4.2: 96	2000 - 00 mg/2 24 m	magna mg/E E000
	1.7 - 7.6: 96 h	h Oncorhynchus mykiss		
	Pseudokirchneriella	mg/L LC50 semi-static		
	subcapitata mg/L EC50	32: 96 h Lepomis		
	static 2.6 - 11.3: 72 h	macrochirus mg/L LC50		
	Pseudokirchneriella	static 7.55 - 11: 96 h		
	subcapitata mg/L EC50	Pimephales promelas		
	static 438: 96 h	mg/L LC50 flow-through		
	Pseudokirchneriella	9.1 - 15.6: 96 h		
	subcapitata mg/L EC50	Pimephales promelas		
		mg/L LC50 static 9.6: 96 h Poecilia reticulata mg/L		
		LC50 static		
Benzene	29: 72 h	10.7 - 14.7: 96 h	-	8.76 - 15.6: 48 h Daphnia
71-43-2	Pseudokirchneriella	Pimephales promelas		magna mg/L EC50 Static
	subcapitata mg/L EC50	mg/L LC50 flow-through		10: 48 h Daphnia magna
		5.3: 96 h Oncorhynchus		mg/L EC50
		mykiss mg/L LC50		3
		flow-through 28.6: 96 h		
		Poecilia reticulata mg/L		
		LC50 static 22.49: 96 h		
		Lepomis macrochirus		
		mg/L LC50 static 22330 -		
		41160: 96 h Pimephales		
		promelas µg/L LC50 static 70000 - 142000: 96		
		h Lepomis macrochirus		
		μg/L LC50 static		
		μg, L 2000 Statio		

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

Chemical name	Partition coefficient
Toluene 108-88-3	2.7
Isopentane 78-78-4	3.2 - 3.3
Ethyl alcohol 64-17-5	-0.32
Xylene 1330-20-7	2.77 - 3.15

Ethylbenzene 100-41-4	3.2
Benzene 71-43-2	2.1

Other adverse effects

No information available.

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

### Contaminated packaging

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Toluene 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151	-	U220
Xylene 1330-20-7	-	Included in waste stream: F039	-	U239
Ethylbenzene 100-41-4	-	Included in waste stream: F039	-	-
Benzene 71-43-2	U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172		U019

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene	-	-	Toxic waste	-
108-88-3			waste number F025	
			Waste description:	
			Condensed light ends,	
			spent filters and filter	
			aids, and spent desiccant	
			wastes from the	
			production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free	
			radical catalyzed	
			processes. These	
			chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain	
			lengths ranging from one	
			to and including five, with	
			varying amounts and	
			positions of chlorine	
			substitution.	

Chemical name	California Hazardous Waste Status
Isooctane	Toxic
540-84-1	Ignitable

Toluene	Toxic
108-88-3	Ignitable
Isopentane 78-78-4	Ignitable Toxic
Ethyl alcohol	Toxic
64-17-5	Ignitable
Xylene	Toxic
1330-20-7	Ignitable
Hexane	Toxic
110-54-3	Ignitable
Ethylbenzene	Toxic
100-41-4	Ignitable
Benzene	Toxic
71-43-2	Ignitable

# 14. TRANSPORT INFORMATION

DOT UN/ID no. Proper shipping name Hazard Class Packing Group Reportable Quantity (RQ) Special Provisions	Regulated 3475 Ethanol and gasoline mixture 3 II Toluene RQ: 1000 lbs (454 kg); Benzene RQ: 10 lbs (4.54 kg); Xylene RQ: 100 lbs (45.4 kg); Hexane RQ: 5000 lbs (2270 kg); Ethyl benzene RQ: 1000 lbs (454 kg); Isooctane RQ: 1000 lbs (454 kg) 144, 177, IB2, T4, TP1
<u>TDG</u>	Regulated
UN/ID no.	3475
Proper shipping name	Ethanol and gasoline mixture
Hazard Class	3
Packing Group	II
IATA	Regulated
UN/ID no.	3475
Proper shipping name	Ethanol and gasoline mixture
Hazard Class	3
Packing Group	II
ERG Code	3L
Special Provisions	A156
IMDG	Regulated
UN/ID no.	3475
Proper shipping name	ETHANOL AND GASOLINE MIXTURE
Hazard Class	3
Packing Group	II
EmS-No.	F-E, S-E
Special Provisions	333, 363
<u>RID</u>	Regulated
UN/ID no.	3475
Proper shipping name	Ethanol and gasoline mixture
Hazard Class	3
Packing Group	II
ADR	Regulated
UN/ID no.	3475
Proper shipping name	ETHANOL AND GASOLINE MIXTURE

Hazard Class	
Packing Group	

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	15. REGULATORY INFORMATION
International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
l egend:	

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Toluene 108-88-3	1000 lb	Х	Х	Х
Xylene 1330-20-7	100 lb	-	-	Х
Ethylbenzene 100-41-4	1000 lb	X	Х	х
Benzene 71-43-2	10 lb	Х	Х	Х

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Isooctane	1000 lb	-	RQ 1000 lb final RQ

540-84-1			RQ 454 kg final RQ
Toluene	1000 lb 1 lb	-	RQ 1000 lb final RQ
108-88-3			RQ 454 kg final RQ RQ 1 lb
			final RQ
			RQ 0.454 kg final RQ
Xylene	100 lb	-	RQ 100 lb final RQ
1330-20-7			RQ 45.4 kg final RQ
Hexane	5000 lb	-	RQ 5000 lb final RQ
110-54-3			RQ 2270 kg final RQ
Ethylbenzene	1000 lb	-	RQ 1000 lb final RQ
100-41-4			RQ 454 kg final RQ
Benzene	10 lb	-	RQ 10 lb final RQ
71-43-2			RQ 4.54 kg final RQ

### **US State Regulations**

### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Toluene - 108-88-3	Developmental
Ethyl alcohol - 64-17-5	Carcinogen Developmental
Ethylbenzene - 100-41-4	Carcinogen
Benzene - 71-43-2	Carcinogen Developmental Male Reproductive

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Isooctane 540-84-1	Х	X	Х
Toluene 108-88-3	Х	X	Х
Isopentane 78-78-4	Х	X	Х
Ethyl alcohol 64-17-5	Х	X	Х
Xylene 1330-20-7	Х	X	Х
Hexane 110-54-3	Х	X	Х
Ethylbenzene 100-41-4	Х	X	Х
Benzene 71-43-2	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 1	Flammability 3	Instability 0	Physical and chemical properties -
HMIS	Health hazards 2*	Flammability 3	Physical hazards 0	Personal protection X
Revision Date	31-Dec-20	16		

#### Revision Note Disclaimer

No information available.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### Reference Sources for Section 11

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**End of Safety Data Sheet**