

SAFETY DATA SHEET

Issuing Date No data available

Revision Date 10-Feb-2017

Revision Number 1

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

Product identifier		
Product Name	SUNOCO OPTIMA	
Other means of identification		
Product Code(s)	267200	
UN/ID no.	1203	
Synonyms	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	r 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

HIGHLY 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

Unleaded racing gasoline.

Chemical name	CAS No.	Weight-%	Trade secret
Naphtha (petroleum), light alkylate	64741-66-8	70-75	*
Toluene	108-88-3	15-25	*
Isopentane	78-78-4	5-15	*
N-Butane	106-97-8	1-5	*
Xylene	1330-20-7	0.01-0.013	*
Hexane	110-54-3	0.001-0.01	*

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

4. FIRST	AID MEASURES	
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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 Impac Sensitivity to Static Discharge	t None. HIGHLY 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 containment 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
Naphtha (petroleum), light	-	-	-
alkylate			
64741-66-8			
Toluene	TWA: 20 ppm	TWA: 200 ppm	IDLH: 500 ppm
108-88-3		Ceiling: 300 ppm	TWA: 100 ppm
		5 11	TWA: 375 mg/m ³
			STEL: 150 ppm
			STEL: 560 mg/m ³
Isopentane	TWA: 1000 ppm	_	
78-78-4			
N-Butane	STEL: 1000 ppm		TWA: 800 ppm
106-97-8		_	TWA: 1900 mg/m ³
Xylene	STEL: 150 ppm	T\//A: 100 ppm	TWA: 1500 mg/m
, , , , , , , , , , , , , , , , , , , ,		TWA: 100 ppm	-
1330-20-7	TWA: 100 ppm	TWA: 435 mg/m ³	
Hexane	TWA: 50 ppm	TWA: 500 ppm	IDLH: 1100 ppm
110-54-3		TWA: 1800 mg/m ³	TWA: 50 ppm
			TWA: 180 mg/m ³
Other Information	Sunoco derived Time Wei	ighted Average (TWA) for Alkylate	e: 100 ppm.
•	- 1-		
Appropriate engineering control	ois		
Engineering controls	Ensure that evewash stati	ons and safety showers are close	to the workstation location
Engineering controls		bsed system or provide appropriat	
		Use explosion-proof ventilating ec	
	iocai exildust ventiliation. (use explosion-proof ventilating ed	
Individual protection measures	s, such as personal protective	equipment	
Eve/face protection	Wear cafety alacces with	sido shiolds (or gogglos). Esso pr	otaction chield

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 cartridge limit. Exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying 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	
Appearance	
Odor	
Color	
Odor threshold	

Property pН Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility in other solvents **Partition coefficient** Autoignition temperature Decomposition temperature Kinematic viscosity **Dynamic viscosity Explosive properties Oxidizing properties**

Other Information Softening point Molecular weight VOC Content (%) Liquid Density Bulk density Clear Liquid Gasoline clear <1 ppm Values

liquid

No data available No data available 38 - 127 °C / 100 - 260 °F -40 °C / -40 °F No data available No data available

7.6 1.5 5-16 psia No data available 0.76 NIL - 15% No data available 2 - 7 280 °C / 536 °F No data available No data available No data available No data available No information available No information available

No information available No information available 100 wt % (Reference value) No information available No information available

Remarks • Method

Not applicable None known ASTM D 86 Reference value None known None known Reference value

Reference value None known ASTM D 287 Reference value None known Reference value Reference value None known None known

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.

Hazardous polymerizationHazardous polymerization does not occur.Conditions to avoidKeep away from open flames, hot surfaces and sources of ignition. Take precautionary
measures against static discharge. Vapors can form explosive mixtures with air.Incompatible materialsStrong oxidizing agents, strong acids, and strong bases. Halogens. Halogenated
compounds. Peroxides. Chlorine.

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Information on toxicological effects

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.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	4,922.00
ATEmix (dermal)	2,529.00
ATEmix (inhalation-dust/mist)	49.00

Unknown acute toxicity

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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Naphtha (petroleum), light alkylate 64741-66-8	> 7000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 6.31 mg/L (Rat)4 h
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat)4 h
Isopentane 78-78-4	-	-	= 280000 mg/m ³ (Rat) 4 h
N-Butane 106-97-8	-	-	= 658 g/m³ (Rat)4 h
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

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

	evidence of s	moderate/severe, normall kin corrosion. Heavier, arc eams (API, 1995).		
Serious eye damage/eye i	investigated	f gasoline and low boiling p in rabbits using a number o inimal redness and swelling	of samples. None of the sa	mples tested showed
Respiratory or skin sensit	showed no e	ea pigs with gasoline and a vidence of skin sensitizatio at gasoline or low boiling p ensitization.	n (ARCO, 1986-B). There	are no reports available
Germ cell mutagenicity	studied in a r	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 substanc	ation as a carcinogen or mi e contains less than 0.1 % only to certain complex coa	w/w benzene (EINECS No	o 200-753-7). This
Carcinogenicity	inhalation ex in males and work has sho relevant to h gasoline or lo incidence an shown that w	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	ACGIH	IARC	NTP	OSHA

Chemical name	ACGIH	IARC	NTP	OSHA
Toluene	-	Group 3	-	-
108-88-3				
Xylene	-	Group 3	-	-
1330-20-7				

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 cause narcosis/CNS depression at higher exposure concentrations (Drinker P et al, 1943; Davis A et al 1960).
STOT - repeated exposure	The repeat dose toxicity of gasoline and low boiling point naphthas has been studied in rats following dermal and inhalation exposure for periods between 10 days and up to 2 years. The effects of repeated inhalation exposure of primates to gasoline have also been studied. In dermal studies, no systemic toxicity has been seen; the only effect observed was moderate to severe dermal irritation. Repeated inhalation exposure causes light hydrocarbon nephropathy in male rats, an effect which is considered to be both sex and species specific. (Halder CA et al, 1985; API, 2005; ARCO, 1986-C).
Aspiration hazard	Gasoline and low boiling point naphthas are low viscosity, mobile hydrocarbon liquids with a viscosity at 40°C of < 7 mm2/s.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not determined.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Naphtha (petroleum), light alkylate 64741-66-8	30000: 72 h Pseudokirchneriella subcapitata mg/L EC50	-	-	2: 48 h Mysidopsis bahia mg/L LC50
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
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 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 mg/L LC50		0.6: 48 h Gammarus lacustris mg/L LC50 3.82: 48 h water flea mg/L EC50
Hexane 110-54-3	-	2.1 - 2.98: 96 h Pimephales promelas mg/L LC50 flow-through	-	1000: 24 h Daphnia magna mg/L EC50

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
N-Butane 106-97-8	2.89
Xylene 1330-20-7	2.77 - 3.15

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	U220	Included in waste	-	U220
108-88-3		streams: F005, F024,		
		F025, F039, K015, K036,		
		K037, K149, K151		
Xylene	-	Included in waste stream:	-	U239
1330-20-7		F039		

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
Toluene	Toxic
108-88-3	Ignitable
Isopentane 78-78-4	Ignitable Toxic
Xylene	Toxic
1330-20-7	Ignitable

Hexane	Toxic
110-54-3	Ignitable

14. TRANSPORT INFORMATION

DOT UN/ID no. Proper shipping name Hazard Class Packing Group Reportable Quantity (RQ) Special Provisions	Regulated 1203 Gasoline 3 II Toluene RQ: 1000 lbs (454 kg); Xylene RQ: 100 lbs (45.4 kg); Hexane RQ: 5000 lbs (2270 kg) 144, 177, B1, B33, IB2, T4
<u>TDG</u>	Regulated
UN/ID no.	1203
Proper shipping name	Gasoline
Hazard Class	3
Packing Group	II
IATA	Regulated
UN/ID no.	1203
Proper shipping name	Gasoline
Hazard Class	3
Packing Group	II
ERG Code	3H
Special Provisions	A100
IMDG	Regulated
UN/ID no.	1203
Proper shipping name	Gasoline
Hazard Class	3
Packing Group	II
EmS-No.	F-E, S-E
Special Provisions	243, 363
<u>RID</u>	Regulated
UN/ID no.	1203
Hazard Class	3
Packing Group	II
<u>ADR</u>	Regulated
UN/ID no.	1203
Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

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

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)
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

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Toluene - 108-88-3	Developmental

U.S. State Right-to-Know Regulations

Chemical name New Jersey	Massachusetts	Pennsylvania
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Toluene 108-88-3	Х	X	Х
Isopentane 78-78-4	Х	X	Х
N-Butane 106-97-8	Х	X	Х
Xylene 1330-20-7	Х	X	Х
Hexane 110-54-3	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	10-Feb-20)17		

Revision Note No information available.

Disclaimer

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

API (1977) Mutagenicity evaluation of unleaded gasoline. Study conducted by Litton Bionetics. API Med. Res. Publ. 28-30173. Washington DC: American Petroleum Institute.

API (1983) Carcinogenic potential of key petroleum products. Study conducted by Eppley Institute for Research in Cancer, University of Nebraska Medical School. API Med. Res. Publ. 30-31646. Washington DC: American Petroleum Institute.

API (1995) Primary skin irritation study in rabbits of API 91-01 and PS-6. Unleaded test gasolines. Study conducted by Hill Top Biolabs Inc. API Toxicology Report No. 409. Washington DC: American Petroleum Institute.

API (2005) Baseline gasoline vapor condensate: a 13-week whole-body inhalation toxicity study in rats with neurotoxicity assessments and 4-week in vivo genotoxicity and immunotoxicity assessments. Study conducted by Huntingdon Life Sciences. Study No. 00-6125. Washington DC: American Petroleum Institute.

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End of Safety Data Sheet