

## **Safety Data Sheet**

Issue Date: 14-Oct-2011

Revision Date: 11-May-2015

Version 1

## **1. IDENTIFICATION**

<u>Product Identifier</u> Product Name	OCTANE BOOST
Other means of identification SDS #	7777-044
Product Code UN/ID No	2004 UN1268
Recommended use of the chemic	al and restrictions on use
Recommended Use	Engine octane boost additive.

## Details of the supplier of the safety data sheet

Supplier Address PETRA OIL COMPANY 6100 WEST by NORTHWEST BLVD STE 190 Houston, TX 77040

## Emergency Telephone Number

Emergency Telephone (24 hr)

CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

Appearance Clear to yellow or brown liquid

Physical State Liquid

Odor Strong Kerosene odor

#### **Classification**

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable Liquids	Category 3

## Hazards Not Otherwise Classified (HNOC)

Causes mild skin irritation

<u>Signal Word</u> Danger

## Hazard Statements

Harmful if swallowed Toxic in contact with skin Toxic if inhaled May cause genetic defects May cause cancer Suspected of damaging fertility or the unborn child May cause damage to organs through prolonged or repeated exposure May be fatal if swallowed and enters airways Flammable liquid and vapor



## **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 Do not eat, drink or smoke when using this product 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 explosion-proof equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool

#### **Precautionary Statements - Response**

If exposed or concerned: 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 Call a poison center or doctor/physician if you feel unwell IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a poison center or doctor/physician IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do not induce vomiting Rinse mouth 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 container tightly closed

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Other Hazards

Toxic to aquatic life with long lasting effects

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

Chemical Name	CAS No	Weight-%
Kerosene	8008-20-6	>99
Distillates, petroleum, petroleum residues vacuum	68955-27-1	0-99
Naphthalene	91-20-3	0-3
Xylene	1330-20-7	0-2
Toluene	108-88-3	0-1
Ethylbenzene	100-41-4	0-1
Cyclohexane	110-82-7	0-1
Benzene	71-43-2	0-0.5

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

4. FIRST-AID MEASURES		
First Aid Measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not use an eye ointment. Seek medical attention.	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Do not apply oils or ointments unless ordered to by a physician. Call a poison center or doctor/physician if you feel unwell.	
Inhalation	If symptomatic, move to fresh air. Immediately call a poison center or doctor/physician.	
Ingestion	Immediately call a physician or poison center in case of ingestion.	

#### Most important symptoms and effects

Symptoms Mild eye, skin, and/or respiratory irritation. May cause discomfort if swallowed. Inhalation symptoms may include dizziness and headache. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption. Consideration should be given to the use of an intratracheal tube, to prevent aspiration. Irregular heartbeat may occur, use of adrenalin is not advisable. Individuals intoxicated by the product should be hospitalized immediately, with acute and continuing attention to neurological and cardiopulmonary function. Positive pressure ventilation may be necessary. After the initial episode, individuals should be monitored for changes in blood variables and the delayed appearance of pulmonary edema and chemical pnuemonitis. Such patients should be more seriously impaired, and recovery from inhalation exposure may be complicated. In case of skin injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss.

## **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Carbon dioxide (CO2). Dry chemical. Foam.

Unsuitable Extinguishing Media Water jet. Water may cause frothing.

## Specific Hazards Arising from the Chemical

Flammable liquid and vapor. Vapors may travel to source of ignition and flash back. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.).

**Hazardous Combustion Products** Smoke, fumes or vapors, and oxides of carbon. Oxides of sulfur. Nitrogen oxides (NOx). Varied particulate matter. Volatile organic compounds.

Sensitivity to Static Discharge Take precautionary measures against static discharge.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat. Evacuate area and fight fire from a safe distance. Do not release runoff from fire control methods to sewers or waterways.

## 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions	Use personal protective equipment as required. Remove all sources of ignition. Evacuate unnecessary personnel. A vapor suppressing foam may be used to reduce vapors. All equipment used when handling the product must be grounded. Use non-sparking tools. Ensure clean-up is conducted by trained personnel only.	
Other Information	Immediately contact emergency personnel.	
Environmental Precautions	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. The National Response Center (NRC) can be reached at 1-800-424-8802. See Section 12 for additional Ecological Information.	
Methods and material for containm	ent and cleaning up	
Methods for Containment	Stop leak if you can do it without risk. Small spill: Cover with a non-combustible material and remove to approved disposal container. For large spills, dike far ahead of spill for later disposal. Prevent runoff to storm sewers and ditches leading to natural waterways. Collect using an inert absorbent material and place in appropriate containers for disposal.	
Methods for Clean-Up	Keep in suitable, closed containers for disposal.	

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Use only with adequate ventilation. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe vapors. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use non-sparking hand tools and explosion-proof electrical equipment. Take precautionary measures against static discharges. Never siphon by mouth. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose to any source of ignition.

## Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Empty containers may contain harmful, flammable/combustible or explosive vapors/residue. Do not cut, drill, grind, or weld on or near this container; residual vapors may ignite. Protect from excessive heat. Do not handle or store near any sources of ignition. Store away from incompatible materials. Store locked up.
Incompatible Materials	Oxidizing agents. Acids. Alkalis. Halogens. Hydrogen peroxide. Chlorinating agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Kerosene	TWA: 200 mg/m <sup>3</sup> total	-	TWA: 100 mg/m <sup>3</sup>
8008-20-6	hydrocarbon vapor application		
	restricted to conditions in which		
	there are negligible aerosol		
	exposures		
	S*		
Naphthalene	TWA: 10 ppm	TWA: 10 ppm	IDLH: 250 ppm
91-20-3	S*	TWA: 50 mg/m <sup>3</sup>	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 50 mg/m <sup>3</sup>
		(vacated) TWA: 50 mg/m <sup>3</sup>	STEL: 15 ppm
		(vacated) STEL: 15 ppm	STEL: 75 mg/m <sup>3</sup>
		(vacated) STEL: 75 mg/m <sup>3</sup>	
Xylene	STEL: 150 ppm	TWA: 100 ppm	-
1330-20-7	TWA: 100 ppm	TWA: 435 mg/m <sup>3</sup>	
		(vacated) TWA: 100 ppm	
		(vacated) TWA: 435 mg/m <sup>3</sup>	
		(vacated) STEL: 150 ppm	
		(vacated) STEL: 655 mg/m <sup>3</sup>	
Ethylbenzene	TWA: 20 ppm	TWA: 100 ppm	IDLH: 800 ppm
100-41-4		TWA: 435 mg/m°	TWA: 100 ppm
		(vacated) TWA: 100 ppm	TWA: 435 mg/m <sup>3</sup>
		(vacated) TWA: 435 mg/m <sup>3</sup>	STEL: 125 ppm
		(vacated) STEL: 125 ppm	STEL: 545 mg/m <sup>°</sup>
		(vacated) STEL: 545 mg/m <sup>3</sup>	
Toluene	TWA: 20 ppm	TWA: 200 ppm	IDLH: 500 ppm
108-88-3		(vacated) TWA: 100 ppm	TWA: 100 ppm
		(vacated) TWA: 375 mg/m <sup>3</sup>	TWA: 375 mg/m <sup>3</sup>
		(vacated) STEL: 150 ppm	STEL: 150 ppm
		(vacated) STEL: 560 mg/m <sup>3</sup>	STEL: 560 mg/m <sup>°</sup>
		Ceiling: 300 ppm	
Cyclohexane	TWA: 100 ppm	TWA: 300 ppm	IDLH: 1300 ppm
110-82-7		TWA: 1050 mg/m <sup>3</sup>	TWA: 300 ppm
		(vacated) TWA: 300 ppm	TWA: 1050 mg/m°
		(vacated) TWA: 1050 mg/m°	
Benzene	STEL: 2.5 ppm	TWA: 10 ppm applies to industry	IDLH: 500 ppm
71-43-2	TWA: 0.5 ppm	segments exempt from the	TWA: 0.1 ppm
	S*	benzene standard at 29 CFR	STEL: 1 ppm
		1910.1028	
		TWA: 1 ppm	
		(vacated) IVVA: 10 ppm unless	
		specified in 1910.1028	
		(vacated) STEL: 50 ppm 10 min	
		unless specified in 1910.1028	
		(vacated) Celling: 25 ppm unless	
		Colling: 25 ppm	
		31 EL: 5 ppm see 29 CFR	
		1910.1028	

## Appropriate engineering controls

Engineering Controls	Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.
Individual protection measures,	such as personal protective equipment
Eye/Face Protection	Chemical face shield, goggles with face shield or protective safety glasses equipped with side shields are recommended as minimum protection in industrial settings.
Skin and Body Protection	Chemical resistant, impermeable gloves. Use nitrile or viton gloves.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator as needed. Observe OSHA regulations for respirator use.
General Hygiene Consideration	ons Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical State Appearance	Liquid Clear to yellow or brown liquid	Odor	Strong Kerosene odor
Color	Clear to yellow or brown	Odor Threshold	Not determined
Property_	Values_	Remarks • Method	
pH	Not determined		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	104-304 °C / 220-580 °F		
Flash Point	48 °C / 120 °F	TCC	
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Liquid-not applicable		
Upper Flammability Limits	6%		
Lower Flammability Limit	0.7%		
Vapor Pressure	<5.2 mmHg	@ 20 C	
Vapor Density	3	(Air=1)	
Specific Gravity	0.79-0.9	(1=Water)	
Water Solubility	Very slightly soluble in cold water	. ,	
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	204 °C / 400 °F		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

## **10. STABILITY AND REACTIVITY**

#### Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

#### Hazardous Polymerization

Hazardous polymerization does not occur.

## Conditions to Avoid

See Sec. 7 Handling & Storage.

#### Incompatible Materials

Oxidizing agents. Acids. Alkalis. Halogens. Hydrogen peroxide. Chlorinating agents.

#### Hazardous Decomposition Products

Smoke, fumes or vapors, and oxides of carbon. Oxides of sulfur. Nitrogen oxides (NOx). Volatile organic compounds. Particulate matter.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	
Eye Contact	Avoid contact with eyes.
Skin Contact	Causes mild skin irritation. Toxic in contact with skin.
Inhalation	Toxic if inhaled.
Ingestion	Harmful if swallowed.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Distillates, petroleum, petroleum	= 4320 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
residues vacuum			
68955-27-1			
Kerosene	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.28 mg/L (Rat)4 h
8008-20-6			
Naphthalene	= 490 mg/kg (Rat) = 1110 mg/kg (	> 20 g/kg (Rabbit) = 1120 mg/kg (	> 340 mg/m³(Rat)1 h
91-20-3	Rat )	Rabbit )	
Xylene	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)> 1700	= 29.08 mg/L (Rat)4 h = 5000
1330-20-7		mg/kg (Rabbit)	ppm (Rat)4h
Ethylbenzene	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.2 mg/L (Rat)4 h
100-41-4			
Toluene	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat)4 h
108-88-3			
Cyclohexane	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 13.9 mg/L (Rat)4 h
110-82-7			
Benzene	= 810 mg/kg (Rat) = 1800 mg/kg (	> 8200 mg/kg (Rabbit)	= 44.66 mg/L (Rat)4 h
71-43-2	Rat )		

#### Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

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

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity

May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Kerosene 8008-20-6	A3	Group 3		
Naphthalene 91-20-3	A3	Group 2A	Reasonably Anticipated	Х
Xylene 1330-20-7		Group 3		
Ethylbenzene 100-41-4	A3	Group 2B		Х
Toluene 108-88-3		Group 3		
Benzene 71-43-2	A1	Group 1	Known	Х

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A1 - Known Human Carcinogen

A3 - Animal Carcinogen IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens" OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.
Numerical measures of toxicity	

Not determined

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

#### **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Distillates, petroleum,		48: 96 h Brachydanio rerio		
petroleum residues vacuum		mg/L LC50 semi-static		
68955-27-1				
Naphthalene	0.4: 72 h Skeletonema	5.74 - 6.44: 96 h Pimephales		2.16: 48 h Daphnia magna
91-20-3	costatum mg/L EC50	promelas mg/L LC50 flow-		mg/L LC50 1.96: 48 h
		through 1.6: 96 h		Daphnia magna mg/L EC50
		Oncorhynchus mykiss mg/L		Flow through 1.09 - 3.4: 48 h
		LC50 flow-through 0.91 -		Daphnia magna mg/L EC50
		2.82: 96 h Oncorhynchus		Static
		mykiss mg/L LC50 static		
		1.99: 96 h Pimephales		
		promelas mg/L LC50 static		
		31.0265: 96 h Lepomis		
		macrochirus mg/L LC50		
		static		

			<b>EQTO</b>	
Xylene		13.4: 96 h Pimephales	EC50 = 0.0084 mg/L 24 h	3.82: 48 h water flea mg/L
1330-20-7		promelas mg/L LC50 flow-		EC50 0.6: 48 h Gammarus
		through 2.661 - 4.093: 96 h		lacustris mg/L LC50
		Oncorhynchus mykiss mg/L		_
		I C50 static 30.26 - 40.75: 96		
		h Poecilia reticulata ma/l		
		I C50 static 23 53 20 07: 06		
		LC30 Static 23.33 - 29.97. 90		
		n Pimephales prometas mg/L		
		LC50 static 780: 96 h		
		Cyprinus carpio mg/L LC50		
		780: 96 h Cyprinus carpio		
		mg/L LC50 semi-static 7.711		
		- 9.591: 96 h Lepomis		
		macrochirus mg/L LC50		
		static 19: 96 h Lepomis		
		macrochirus mg/L L C50 13 5		
		- 17 3: 96 h Opcorbynchus		
		myking mg/L L CE0 12 1		
		10 5: 00 h Lanamia		
		16.5: 96 h Lepomis		
		macrochirus mg/L LC50		
		flow-through		
Ethylbenzene	4.6: 72 h Pseudokirchneriella	11.0 - 18.0: 96 h	EC50 = 9.68 mg/L 30 min	1.8 - 2.4: 48 h Daphnia
100-41-4	subcapitata mg/L EC50 1.7 -	Oncorhynchus mykiss mg/L	EC50 = 96 mg/L 24 h	magna mg/L EC50
	7.6: 96 h Pseudokirchneriella	LC50 static 4.2: 96 h	-	
	subcapitata mg/L EC50	Oncorhynchus mykiss ma/L		
	static 438: 96 h	I C50 semi-static 9 6: 96 h		
	Boudokirchporiollo	Poocilia roticulata mg/l		
	F Seudokii Ciiiieiieiia	Foecilia Teliculata Ing/L		
		LC50 static 32. 90 II Lepothis		
	11.3: 72 n	macrochirus mg/L LC50		
	Pseudokirchneriella	static 9.1 - 15.6: 96 h		
	subcapitata mg/L EC50	Pimephales promelas mg/L		
	static	LC50 static 7.55 - 11: 96 h		
		Pimephales promelas mg/L		
		LC50 flow-through		
Toluene	433: 96 h	15.22 - 19.05: 96 h	EC50 = 19.7 mg/L 30 min	5.46 - 9.83: 48 h Daphnia
108-88-3	Pseudokirchneriella	Pimephales promelas mg/L	6	magna mg/L EC50 Static
	subcapitata mg/L EC50 12.5;	LC50 flow-through 12.6: 96 h		11.5: 48 h Daphnia magna
	72 h Pseudokirchneriella	Pimephales promelas mg/l		mg/L FC50
	subcapitata mg/L EC50	I C50 static 11 0 - 15 0: 96 h		g. = = = = = =
	static	Lenomis macrochirus ma/l		
	Static	L C50 static 5 89 - 7 81: 96 h		
		CEO flow through E4, 06 h		
		LC50 now-infough 54. 96 h		
		Oryzias latipes Ing/L LC50		
		static 28.2: 96 h Poecilla		
		reticulata mg/L LC50 semi-		
		static 50.87 - 70.34: 96 h		
		Poecilia reticulata mg/L		
		LC50 static 14.1 - 17.16: 96		
		h Oncorhynchus mykiss		
		mg/L LC50 static 5.8: 96 h		
		Oncorhynchus mykiss mg/l		
		LC50 semi-static		
Cyclobeyane	500: 72 h Desmodesmus	3 96 - 5 18: 96 h Pimenhales	$EC50 = 85.5 mg/l_{-5} min$	400: 24 h Danhnia magna
110-82-7	subspicatus mg/L EC50	prometas mg/LLC50 flow-	EC50 = 93  mg/L 10  min	mg/L EC50
110-02-7	Subspicatus mg/L LCOU	through 23 03 42 07.09 h		ing/L LC50
		Dimonhalos promotos ma <sup>//</sup>		
		Finephales prometas mg/L		
		LCOU STATIC 24.99 - 44.69: 96		
		n Lepomis macrochirus mg/L		
		LC50 static 48.87 - 68.76: 96		
		h Poecilia reticulata mg/L		
		LC50 static		

Benzene	29: 72 h Pseudokirchneriella	10.7 - 14.7: 96 h Pimephales	8.76 - 15.6: 48 h Daphnia
71-43-2	subcapitata mg/L EC50	promelas mg/L LC50 flow-	magna mg/L EC50 Static 10:
		through 5.3: 96 h	48 h Daphnia magna mg/L
		Oncorhynchus mykiss mg/L	EC50
		LC50 flow-through 70000 -	
		142000: 96 h Lepomis	
		macrochirus µg/L LC50	
		static 22.49: 96 h Lepomis	
		macrochirus mg/L LC50	
		static 28.6: 96 h Poecilia	
		reticulata mg/L LC50 static	
		22330 - 41160: 96 h	
		Pimephales promelas µg/L	
		LC50 static	

## Persistence/Degradability

Not determined.

## **Bioaccumulation**

Not determined.

### **Mobility**

Chemical Name	Partition Coefficient
Naphthalene 91-20-3	3.3
Xylene 1330-20-7	2.77 - 3.15
Ethylbenzene 100-41-4	3.118
Toluene 108-88-3	2.65
Cyclohexane 110-82-7	3.44
Benzene 71-43-2	1.83

# Other Adverse Effects Not determined

## **13. DISPOSAL CONSIDERATIONS**

## Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

## US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Naphthalene	U165	Included in waste streams:		U165
91-20-3		F024, F025, F034, F039,		
		K001, K035, K060, K087,		
		K145		
Xylene		Included in waste stream:		U239
1330-20-7		F039		
Ethylbenzene		Included in waste stream:		
100-41-4		F039		

## 7777-044 - **OCTANE BOOST**

Toluene 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		U220
Cyclohexane 110-82-7				U056
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	0.5 mg/L regulatory level	U019

Chemical Name RCRA - Halogenated RCRA - P Series Wastes		RCRA - F Series Wastes	RCRA - K Series Wastes	
	Organic Compounds			
Naphthalene			Toxic waste	
91-20-3			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.	
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.	
Benzene			no data delivered	no data delivered
71-43-2		1		

## California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Naphthalene	Toxic
91-20-3	
Xylene	Toxic
1330-20-7	Ignitable
Ethylbenzene	Toxic
100-41-4	Ignitable
Toluene	Toxic
108-88-3	Ignitable
Cyclohexane	Toxic
110-82-7	Ignitable
Benzene	Toxic
71-43-2	Ignitable

## **14. TRANSPORT INFORMATION**

#### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT UN/ID No Proper Shipping Name Hazard Class Packing Group Emergency Response Guide Number	UN1268 Petroleum distillates, n.o.s. 3 III 128
IATA UN/ID No Proper Shipping Name Hazard Class Packing Group	UN1268 Petroleum distillates, n.o.s. 3 III
IMDG UN/ID No Proper Shipping Name Hazard Class Packing Group Marine Pollutant	UN1268 Petroleum distillates, n.o.s. 3 III Manufacturer lists this material as a Marine Pollutant when shipped in quantities greater than 340 gallons

## **15. REGULATORY INFORMATION**

## International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Kerosene	Present	Х		Present		Present	Х	Present	Х	Х
Distillates, petroleum, petroleum residues vacuum	Present	Х		Present		Present	Х	Present		Х
Naphthalene	Present	Х		Present		Present	Х	Present	Х	Х
Xylene	Present	Х		Present		Present	Х	Present	Х	Х
Toluene	Present	Х		Present		Present	Х	Present	Х	Х
Ethylbenzene	Present	Х		Present		Present	Х	Present	Х	Х
Cyclohexane	Present	Х		Present		Present	Х	Present	Х	Х
Benzene	Present	Х		Present		Present	Х	Present	Х	Х

#### 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

## **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Naphthalene	1 lb		RQ 1 lb final RQ
91-20-3			RQ 0.454 kg final RQ
Xylene	100 lb		RQ 100 lb final RQ
1330-20-7			RQ 45.4 kg final RQ
Ethylbenzene	1000 lb		RQ 1000 lb final RQ
100-41-4			RQ 454 kg final RQ
Toluene	1 lb		RQ 1 lb final RQ
108-88-3			RQ 0.454 kg final RQ
Cyclohexane	1000 lb		RQ 1000 lb final RQ
110-82-7			RQ 454 kg final RQ
Benzene	10 lb		RQ 10 lb final RQ
71-43-2			RQ 4.54 kg final RQ

## 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

## <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Naphthalene - 91-20-3	91-20-3	0-3	0.1
Xylene - 1330-20-7	1330-20-7	0-2	1.0
Ethylbenzene - 100-41-4	100-41-4	0-1	0.1
Toluene - 108-88-3	108-88-3	0-1	1.0
Cyclohexane - 110-82-7	110-82-7	0-1	1.0
Benzene - 71-43-2	71-43-2	0-0.5	0.1

### CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Naphthalene	100 lb	Х	Х	Х
Xylene	100 lb			Х
Ethylbenzene	1000 lb	Х	Х	Х
Toluene	1000 lb	Х	Х	Х
Cyclohexane	1000 lb			Х
Benzene	10 lb	Х	Х	Х

#### US State Regulations

## **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Naphthalene - 91-20-3	Carcinogen
Ethylbenzene - 100-41-4	Carcinogen
Toluene - 108-88-3	Developmental
	Female Reproductive
Benzene - 71-43-2	Carcinogen
	Developmental
	Male Reproductive

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Kerosene 8008-20-6	X	X	X
Naphthalene 91-20-3	X	X	X
Xylene 1330-20-7	X	X	X
Ethylbenzene 100-41-4	X	X	X
Toluene 108-88-3	X	X	X
Cyclohexane 110-82-7	X	X	X
Benzene 71-43-2	X	X	X

## **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	Health Hazards 1 Health Hazards 1	Flammability 3 Flammability 3	Instability 0 Physical Hazards 0	Special Hazards Not determined Personal Protection Not determined
Issue Date: Revision Date:	14-Oct-2011 11-May-2015			
Revision Note:	New for	mat		

#### **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.

#### **End of Safety Data Sheet**