

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : NOS OCTANE BOOST 16 FL. OZ.
Product code : 120-NOSOB-16

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Octane booster

1.3. Details of the supplier of the safety data sheet

Holley Performance Products
2445 Nashville Rd., Suite B1
Bowling Green, KY 42101
T 270-782-2900

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids, Category 4	H227 Combustible liquid.
Acute toxicity (oral), Category 4	H302 Harmful if swallowed.
Acute toxicity (inhalation:dust,mist), Category 3	H332 Harmful if inhaled.
Germ cell mutagenicity, Category 1B	H340 May cause genetic defects.
Carcinogenicity, Category 1B	H350 May cause cancer.
Aspiration hazard, Category 1	H304 May be fatal if swallowed and enters airways.

Full text of H- and EUH-statements: see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) :
H227 - Combustible liquid
H302+H332 - Harmful if swallowed or if inhaled
H304 - May be fatal if swallowed and enters airways
H340 - May cause genetic defects.
H350 - May cause cancer.

Precautionary statements (GHS US) :
P201 - Obtain special instructions
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
P301+P310 - If swallowed: Immediately call a poison control center, doctor, physician,
P301+P312 - If swallowed: Call a poison center, doctor if you feel unwell
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.
P330 - Rinse mouth.
P331 - Do NOT induce vomiting.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P403 - Store in a well-ventilated place.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards

No additional information available

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Distillates (Petroleum), Hydrotreated Light	(CAS-No.) 64742-47-8	70 – 85	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Solvent Naphtha (Petroleum), Heavy Aromatic	(CAS-No.) 64742-94-5	6.3 – 12.6	Asp. Tox. 1, H304
Tricarbonyl (methylcyclopentadienyl) Manganese	(CAS-No.) 12108-13-3	3.15 – 6.3	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310
Methylated homopolymer	(CAS-No.) 9011-14-7	2.1 – 4.2	Not classified
Paraffins (Petroleum), Normal C5-20	(CAS-No.) 64771-72-8	0.21 – 2.1	Not classified
Distillates, Hydrotreated Light	(CAS-No.) 64742-47-8	0.21 – 2.1	Not classified
Petroleum Distillates	(CAS-No.) 68476-34-6	0.21 – 2.1	Flam. Liq. 3, H226 Carc. 2, H351
Naphthalene	(CAS-No.) 91-20-3	0.63 – 1.47	Acute Tox. 4 (Oral), H302 Carc. 2, H351
Xylene, Mixture of Isomers	(CAS-No.) 1330-20-7	0.21 – 1.05	Flam. Liq. 3, H226 Skin Irrit. 2, H315
1,2,4-trimethylbenzene	(CAS-No.) 95-63-6	0.21 – 0.63	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Naphtha, Hydrotreated Heavy	(CAS-No.) 64742-48-9	0.21 – 0.42	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Ethylbenzene	(CAS-No.) 100-41-4	0.105 – 0.315	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Polyalphaolefin polymer	(CAS-No.) 68037-01-4	0.021 – 0.21	Not classified
2-Propanol	(CAS-No.) 67-63-0	< 1	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Mesitylene	(CAS-No.) 108-67-8	0.021 – 0.105	Flam. Liq. 3, H226 STOT SE 3, H335
Manganese Cyclopentadienyl Tricarbonyl	(CAS-No.) 12079-65-1	0.021 – 0.105	Acute Tox. 2 (Oral), H300

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: May cause genetic defects. May cause cancer.
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustible liquid.
- Explosion hazard : May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Keep away from heat, sparks, open flames, hot surfaces. - No smoking.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapor spray. Obtain special instructions. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Keep in fireproof place.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

NOS OCTANE BOOST 16 FL. OZ.

No additional information available

Distillates (Petroleum), Hydrotreated Light (64742-47-8)

No additional information available

2-Propanol (67-63-0)

No additional information available

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	980 mg/m ³
	400 ppm
ACGIH OEL STEL	1225 mg/m ³
	500 ppm
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	980 mg/m ³
	400 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	980 mg/m ³
	400 ppm
NIOSH REL (Ceiling)	1225 mg/m ³
	500 ppm
Tricarbonyl (methylcyclopentadienyl) Manganese (12108-13-3)	
No additional information available	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.2 mg/m ³
Solvent Naphtha (Petroleum), Heavy Aromatic (64742-94-5)	
No additional information available	
1,2,4-trimethylbenzene (95-63-6)	
No additional information available	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 ppm
Naphthalene (91-20-3)	
No additional information available	
Xylene, Mixture of Isomers (1330-20-7)	
No additional information available	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	20 ppm
Paraffins (Petroleum), Normal C5-20 (64771-72-8)	
No additional information available	
Mesitylene (108-67-8)	
No additional information available	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 ppm
Manganese Cyclopentadienyl Tricarbonyl (12079-65-1)	
No additional information available	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.1 mg/m ³
Distillates, Hydrotreated Light (64742-47-8)	
No additional information available	
Naphtha, Hydrotreated Heavy (64742-48-9)	
No additional information available	
Ethylbenzene (100-41-4)	
No additional information available	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	20 ppm
Petroleum Distillates (68476-34-6)	
No additional information available	
Polyalphaolefin polymer (68037-01-4)	
No additional information available	
Methylated homopolymer (9011-14-7)	
No additional information available	

8.2. Appropriate engineering controls

No additional information available

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless.
Odor	: characteristic.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 400 °F
Flash point	: 67 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: 2 cSt @40°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Inhalation:dust,mist.

ATE US (oral)	805.842 mg/kg body weight
ATE US (dust, mist)	1.27 mg/l/4h

Distillates (Petroleum), Hydrotreated Light (64742-47-8)

LD50 oral rat	> 15000 mg/kg Source: IUCLID
LD50 dermal rabbit	> 2000 mg/kg Source: IUCLID

2-Propanol (67-63-0)

LD50 oral rat	5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	16400 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat [ppm]	> 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	5840 mg/kg body weight
ATE US (dermal)	12890400 mg/kg body weight

Tricarbonyl (methylcyclopentadienyl) Manganese (12108-13-3)

LD50 oral rat	52 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	140 mg/kg (Equivalent or similar to OECD 402, Rabbit, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	0.08 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	52 mg/kg body weight
ATE US (dermal)	140 mg/kg body weight
ATE US (vapors)	0.08 mg/l/4h
ATE US (dust, mist)	0.08 mg/l/4h

1,2,4-trimethylbenzene (95-63-6)

LD50 oral rat	6000 mg/kg body weight (Equivalent or similar to EU Method B.1, Rat, Male, Experimental value, Oral, 014 day(s))
LD50 dermal rat	3440 mg/kg (24 h, Rat, Male / female, Read-across, Dermal)
ATE US (oral)	6000 mg/kg body weight
ATE US (dermal)	3440 mg/kg body weight
ATE US (vapors)	11 mg/l/4h

Naphthalene (91-20-3)

ATE US (oral)	500 mg/kg body weight
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Xylene, Mixture of Isomers (1330-20-7)

LD50 oral rat	> 4000 mg/kg body weight (Equivalent or similar to EU Method B.1, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 4200 mg/kg (Rabbit; Experimental value,Rabbit; Experimental value)
LC50 Inhalation - Rat	29.09 mg/l (Equivalent or similar to EU Method B.2, 4 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (vapors)	29.09 mg/l/4h
ATE US (dust, mist)	29.09 mg/l/4h

Mesitylene (108-67-8)

LD50 oral rat	6000 mg/kg body weight (Equivalent or similar to EU Method B.1, Rat, Male, Read-across, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bw/day (24 h, Rat, Male / female, Read-across, Dermal)
ATE US (oral)	6000 mg/kg body weight

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Manganese Cyclopentadienyl Tricarbonyl (12079-65-1)

LD50 oral rat	22 mg/kg (Rat, Oral)
ATE US (oral)	22 mg/kg body weight

Ethylbenzene (100-41-4)

LD50 oral rat	3500 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	15433 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	3500 mg/kg body weight
ATE US (dermal)	15433 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	17.8 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

Petroleum Distillates (68476-34-6)

LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)
LC50 Inhalation - Rat	> 5 mg/l (4 h, Rat, Inhalation)

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.

2-Propanol (67-63-0)

IARC group	3 - Not classifiable
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Naphthalene (91-20-3)

IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

Xylene, Mixture of Isomers (1330-20-7)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified

STOT-single exposure : Not classified

2-Propanol (67-63-0)

STOT-single exposure	May cause drowsiness or dizziness.
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1,2,4-trimethylbenzene (95-63-6)

STOT-single exposure	May cause respiratory irritation.
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Mesitylene (108-67-8)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified

Ethylbenzene (100-41-4)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard : May be fatal if swallowed and enters airways.

Viscosity, kinematic : 2 mm²/s @40°C

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Harmful if swallowed. Harmful if inhaled.

Symptoms/effects : May cause genetic defects. May cause cancer.

Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

Distillates (Petroleum), Hydrotreated Light (64742-47-8)

LC50 - Fish [1]	2.4 mg/l Source: ECOTOX
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NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-Propanol (67-63-0)	
LC50 - Fish [1]	9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
Tricarbonyl (methylcyclopentadienyl) Manganese (12108-13-3)	
LC50 - Fish [1]	0.21 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	0.83 mg/l (EPA OTS 797.1300, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
1,2,4-trimethylbenzene (95-63-6)	
LC50 - Fish [1]	7.72 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
Xylene, Mixture of Isomers (1330-20-7)	
LC50 - Fish [1]	2.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static renewal, Fresh water, Read-across, Lethal)
ErC50 algae	4.4 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
Mesitylene (108-67-8)	
LC50 - Fish [1]	12.52 mg/l (96 h, Carassius auratus, Flow-through system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	53 mg/l (DIN 38412-9, 48 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Ethylbenzene (100-41-4)	
LC50 - Fish [1]	5.1 mg/l (ASTM, 96 h, Menidia menidia, Flow-through system, Salt water, Experimental value, Lethal)
EC50 - Crustacea [1]	1.8 – 2.4 mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)

12.2. Persistence and degradability

NOS OCTANE BOOST 16 FL. OZ.	
Persistence and degradability	Not established.
2-Propanol (67-63-0)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. Not established.
Biochemical oxygen demand (BOD)	1.19 g O ₂ /g substance
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance
ThOD	2.4 g O ₂ /g substance
Tricarbonyl (methylcyclopentadienyl) Manganese (12108-13-3)	
Persistence and degradability	Not readily biodegradable in water.
Solvent Naphtha (Petroleum), Heavy Aromatic (64742-94-5)	
Persistence and degradability	Not established.
1,2,4-trimethylbenzene (95-63-6)	
Persistence and degradability	Not readily biodegradable in water. Not established.
Chemical oxygen demand (COD)	0.44 g O ₂ /g substance
Naphthalene (91-20-3)	
Persistence and degradability	May cause long-term adverse effects in the environment. Not established.
Xylene, Mixture of Isomers (1330-20-7)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Paraffins (Petroleum), Normal C5-20 (64771-72-8)	
Persistence and degradability	Biodegradability in water: no data available.
Mesitylene (108-67-8)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in water. Not established.
Biochemical oxygen demand (BOD)	0.0957 g O ₂ /g substance
Chemical oxygen demand (COD)	0.319 g O ₂ /g substance
ThOD	3.19 g O ₂ /g substance
Manganese Cyclopentadienyl Tricarbonyl (12079-65-1)	
Persistence and degradability	Biodegradability in water: no data available.
Naphtha, Hydrotreated Heavy (64742-48-9)	
Persistence and degradability	Not established.

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Ethylbenzene (100-41-4)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water. Not established.
Biochemical oxygen demand (BOD)	1.44 g O ₂ /g substance
Chemical oxygen demand (COD)	2.1 g O ₂ /g substance
ThOD	3.17 g O ₂ /g substance
Petroleum Distillates (68476-34-6)	
Persistence and degradability	Inherently biodegradable.

12.3. Bioaccumulative potential

NOS OCTANE BOOST 16 FL. OZ.	
Bioaccumulative potential	Not established.
Distillates (Petroleum), Hydrotreated Light (64742-47-8)	
Partition coefficient n-octanol/water (Log Pow)	3.3 – 6 Source: IUCLID
2-Propanol (67-63-0)	
BCF - Fish [1]	1015 (BCFBAF v3.01, Estimated value)
Partition coefficient n-octanol/water (Log Pow)	0.05 (Weight of evidence approach, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.
Tricarbonyl (methylcyclopentadienyl) Manganese (12108-13-3)	
BCF - Fish [1]	400 (24 h, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	3.4 (Practical experience/observation, 26 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Solvent Naphtha (Petroleum), Heavy Aromatic (64742-94-5)	
Bioaccumulative potential	Not established.
1,2,4-trimethylbenzene (95-63-6)	
BCF - Fish [1]	243 (Pimephales promelas, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.63 (Experimental value, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.
Naphthalene (91-20-3)	
Bioaccumulative potential	Not established.
Xylene, Mixture of Isomers (1330-20-7)	
BCF - Fish [1]	7.2 – 26 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-across)
Partition coefficient n-octanol/water (Log Pow)	3.2 (Read-across, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Paraffins (Petroleum), Normal C5-20 (64771-72-8)	
Bioaccumulative potential	No bioaccumulation data available.
Mesitylene (108-67-8)	
BCF - Fish [1]	161 (Pimephales promelas, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.42 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.
Manganese Cyclopentadienyl Tricarbonyl (12079-65-1)	
Partition coefficient n-octanol/water (Log Pow)	-0.57 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.
Naphtha, Hydrotreated Heavy (64742-48-9)	
Bioaccumulative potential	Not established.
Ethylbenzene (100-41-4)	
BCF - Fish [1]	1 (6 week(s), Oncorhynchus kisutch, Flow-through system, Salt water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	3.6 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.
Petroleum Distillates (68476-34-6)	
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6
Bioaccumulative potential	Not established.

12.4. Mobility in soil

2-Propanol (67-63-0)	
Surface tension	No data available (test not performed)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Tricarbonyl (methylcyclopentadienyl) Manganese (12108-13-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.4 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.
1,2,4-trimethylbenzene (95-63-6)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.04 (log Koc, Calculated value)
Ecology - soil	Low potential for mobility in soil. May be harmful to plant growth, blooming and fruit formation.
Xylene, Mixture of Isomers (1330-20-7)	
Surface tension	28.01 – 29.76 mN/m (25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.7 (log Koc, Equivalent or similar to OECD 121, Read-across)
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
Mesitylene (108-67-8)	
Surface tension	27.55 mN/m (25 °C, 100 vol %)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.87 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
Ethylbenzene (100-41-4)	
Surface tension	71.2 mN/m (23 °C, 0.058 g/l, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.71 (log Koc, PCKOCWIN v1.66, QSAR)
Ecology - soil	Low potential for adsorption in soil. Toxic to soil organisms.
Petroleum Distillates (68476-34-6)	
Surface tension	25 mN/m
Ecology - soil	No (test)data on mobility of the component(s) available.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecological information	: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)	
In accordance with DOT	
Transport document description (DOT)	: NA1993 Combustible Liquids, n.o.s. (Octane Booster), (Petroleum Distillates, MTBE) (67 deg C c.c.), Comb Liq, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible Liquids, n.o.s. (Octane Booster), (Petroleum Distillates, MTBE) (67 deg C c.c.)
Class (DOT)	: Comb Liq - Combustible liquid
Packing group (DOT)	: III - Minor Danger
Other information	: No supplementary information available.

Transport by sea

Not regulated

Air transport

Not regulated

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

2-Propanol (67-63-0)

Subject to reporting requirements of United States SARA Section 313

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard
-------------------------------------	--

SARA Section 313 - Emission Reporting	1 %
---------------------------------------	-----

1,2,4-trimethylbenzene (95-63-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting	1 %
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Naphthalene (91-20-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	100 lb
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SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard
-------------------------------------	--

SARA Section 313 - Emission Reporting	1 %
---------------------------------------	-----

Xylene, Mixture of Isomers (1330-20-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	100 lb
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SARA Section 311/312 Hazard Classes	Fire hazard
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SARA Section 313 - Emission Reporting	1 %
---------------------------------------	-----

Paraffins (Petroleum), Normal C5-20 (64771-72-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Mesitylene (108-67-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Naphtha, Hydrotreated Heavy (64742-48-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

2-Propanol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class B Division 2 - Flammable Liquid
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1,2,4-trimethylbenzene (95-63-6)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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Naphthalene (91-20-3)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class B Division 4 - Flammable Solid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
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Xylene, Mixture of Isomers (1330-20-7)

Listed on the Canadian DSL (Domestic Substances List)

Paraffins (Petroleum), Normal C5-20 (64771-72-8)

Listed on the Canadian DSL (Domestic Substances List)

Mesitylene (108-67-8)

Listed on the Canadian DSL (Domestic Substances List)

Naphtha, Hydrotreated Heavy (64742-48-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

2-Propanol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Naphthalene (91-20-3)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

Xylene, Mixture of Isomers (1330-20-7)

Listed on EPA Hazardous Air Pollutant (HAPS)

15.3. US State regulations

NOS OCTANE BOOST 16 FL. OZ.)

U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No

Distillates (Petroleum), Hydrotreated Light (64742-47-8)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

2-Propanol (67-63-0)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Tricarbonyl (methylcyclopentadienyl) Manganese (12108-13-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Solvent Naphtha (Petroleum), Heavy Aromatic (64742-94-5)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

1,2,4-trimethylbenzene (95-63-6)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

Naphthalene (91-20-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
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NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Naphthalene (91-20-3)				
Yes	No	No	No	
Xylene, Mixture of Isomers (1330-20-7)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Paraffins (Petroleum), Normal C5-20 (64771-72-8)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Mesitylene (108-67-8)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Manganese Cyclopentadienyl Tricarbonyl (12079-65-1)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Distillates, Hydrotreated Light (64742-47-8)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Naphtha, Hydrotreated Heavy (64742-48-9)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Ethylbenzene (100-41-4)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	
Petroleum Distillates (68476-34-6)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Polyalphaolefin polymer (68037-01-4)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
Methylated homopolymer (9011-14-7)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 -	U.S. - California - Proposition 65 -	No significant risk level (NSRL)

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Methylated homopolymer (9011-14-7)				
		Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
2-Propanol (67-63-0)				
State or local regulations				
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				
1,2,4-trimethylbenzene (95-63-6)				
State or local regulations				
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				
Naphthalene (91-20-3)				
State or local regulations				
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				
Xylene, Mixture of Isomers (1330-20-7)				
State or local regulations				
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York City - Right to Know Hazardous Substances List U.S. - Pennsylvania - RTK (Right to Know) List				
Mesitylene (108-67-8)				
State or local regulations				
U.S. - New York City - Right to Know Hazardous Substances List				
Ethylbenzene (100-41-4)				
State or local regulations				
U.S. - California - Proposition 65				

SECTION 16: Other information

Other information : None.

Full text of hazard classes and H-statements:

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.

NOS OCTANE BOOST 16 FL. OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H373	May cause damage to organs through prolonged or repeated exposure
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Hazard Rating

Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 2 Moderate Hazard
Physical	: 0 Minimal Hazard

The Supplier identified in Section 1 of this SDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. Published by Jared Olson