

SAFETY DATA SHEET



Revision: 09/21/2020

MidContinental Chemical Company, Inc.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:



Boss Performance Diesel™ Additive – All Season

Company Name:

MidContinental Chemical Company, Inc.
1802 East 123rd Terrace
Olathe, Kansas 66061-5876 USA

Phone Number:

(913) 390-5556

24 Hour Emergency Number:

(800) 424-9300

Web Site Address:

www.mcchemical.com

Emergency Contact:

CHEMTREC

Recommended use:

Diesel additive

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

Flammable liquids: Category 3
Oxidative liquids: Category 2
Acute toxicity – oral: Category 5
Acute toxicity – dermal: Category 4
Acute toxicity – inhalation: Category 4
Skin irritant: Category 2
Serious eye irritation: Category 2A
Carcinogenicity: Category 2
Reproductive toxicity: Category 2
Aspiration toxicity: Category 1
Aquatic toxicity – chronic: Category 2

Label Elements:

Signal Word:

Danger

Pictogram:



GHS Hazard Phrases:

H226: Flammable liquid and vapor.
H272: May intensify fire; oxidizer.
H303: May be harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H351: Suspected of causing cancer.
H361: Suspected of damaging fertility or the unborn child.
H411: Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat / sparks / open flames / other ignition sources – No smoking.
P220: Keep / store away from clothing combustible materials.
P221: Take any precaution to avoid mixing with combustibles.
P233: Keep container tightly closed.

P240: Ground / bond container and receiving equipment.
 P241: Use explosion-proof electrical / ventilating / lighting equipment.
 P242: Use only non-sparking tools.
 P243: Take precautionary measures against static discharge.
 P261: Avoid breathing dust / fume / gas / mist / vapors / spray.
 P264: Wash thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves / protective clothing / eye protection / face protection.

GHS Response Phrases:

P301 + 310: IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
 P302 + 352: IF ON SKIN: Wash with plenty of soap and water.
 P303 + 361 + 353: IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.
 P304 + 312: IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
 P305 + 351 + 338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + 313: IF exposed or concerned: Get medical advice or attention.
 P321: Specific treatment (see information on this label).
 P331: Do NOT induce vomiting.
 P332 + 313: IF SKIN IRRITATION OCCURS: Get medical advice / attention.
 P337 + 313: If eye irritation persists: Get medical advice / attention.
 P362: Take off contaminated clothing and wash before reuse.
 P363: Wash contaminated clothing before reuse.
 P370 + 378: In case of fire: Use extinguishing media listed in Section 5 of this SDS for extinction.
 P391: Collect spillage.

GHS Storage and Disposal Phrases:

P403 + 235: Store in a well-ventilated place. Keep cool.
 P405: Store locked up.
 P501: Dispose of contents / container in accordance with local and national regulations.

3. COMPOSITION / INFORMATION / INGREDIENTS

CAS Number	Hazardous Components (Chemical Name)	Concentration
1330-20-7	Xylene	50 – 75%
64742-94-5	Naphtha (petroleum), heavy aromatic	10 – 25%
27247-96-7	2-Ethylhexyl nitrate	10 – 25%
111-76-2	2-Butoxy-ethanol	5 – 10%
Proprietary	Proprietary	5 – 10%
95-63-6	1,2,4-trimethylbenzene	1 – 5%
91-20-3	Naphthalene	1 – 5%
96-76-4	Phenol, 2,4-bis(1,1-dimethylethyl)	1 – 5%
611-14-3	Benzene, 1-ethyl-2-methyl	0.10 – 1%

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

*PBT/vPvB - PBT-substance or vPvB-substance.

4. FIRST AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

In Case of Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

In Case of Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a

recognized skin cleanser.

In Case of Eye Contact: Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

In Case of Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most Important Symptoms and Effects, Both Acute and Delayed

Overview: Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

Treat symptomatically. Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. Check section 2 (GHS Label Elements) for further details.

5. FIREFIGHTING MEASURES

Flash Point: 92°F (33.3°C)

Suitable Extinguishing Media: CO₂, Dry Chemical, Foam, Sand.

Unsuitable Extinguishing Media: Not available

Special Hazards Arising from the Substance or Mixture

Hazardous Composition Products: No hazardous decomposition data available.

Advice for Firefighters: As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Put on appropriate personal protective equipment (see Section 8).

Environmental Precautions: Do not allow spills to enter drains or waterways. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and Materials for Containment and Cleaning Up: Eliminate ignition sources. Soak up with noncombustible absorbent material (do not use sawdust). Remove absorbent material for proper disposal.

7. HANDLING AND STORAGE

Precautions to Be Taken in Handling: Handle containers carefully to prevent damage and spillage. Check Section 2 (GHS label elements) for further details.

Conditions for Safe Storage, Including Any Incompatible materials: Explosives, UN class 2.3 gasses, oxidizing substances, organic peroxides, and toxic/biohazardous substances. Check Section 2 (GHS label

Incompatibilities: elements) for further details.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

CAS No.	Ingredient	Source	Value
91-20-3	Naphthalene	OSHA ACGIH NIOSH	TWA 10 ppm (50 mg/m ³) STEL 15 ppm TWA: 10 ppm STEL: 15 ppm TWA 10 ppm (50 mg/m ³) ST 15 ppm (75 mg/m ³)
95-63-6	1,2,4-trimethyl benzene	OSHA ACGIH NIOSH	No established limit No established limit TWA 25 ppm (125 mg/m ³)
96-76-4	Phenol, 2,4-bis(1,1-dimethylethyl)	OSHA ACGIH NIOSH	No established limit No established limit No established limit
111-76-2	2-butoxy-ethanol	OSHA ACGIH NIOSH	TWA 50 ppm (240 mg/m ³) [skin] TWA: 20 ppm TWA 5 ppm (24 mg/m ³) [skin]
611-14-3	Benzene, 1-ethyl-2-methyl	OSHA ACGIH NIOSH	No established limit No established limit No established limit
1330-20-7	Xylene	OSHA ACGIH NIOSH	No established limit TWA: 100 ppm STEL: 150 ppm No established limit
27247-96-7	2-ethylhexyl nitrate	OSHA ACGIH NIOSH	No established limit No established limit No established limit
Proprietary	Proprietary	OSHA ACGIH NIOSH	No established limit No established limit No established limit
64742-94-5	Naphtha (petroleum), heavy aromatic	OSHA ACGIH NIOSH	No established limit No established limit No established limit

Occupational Exposure Controls

Respiratory Protection: If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eye Protection: Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin & Body Protection: Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

Engineering Controls: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Odor:	Not provided
Odor Threshold:	Not determined
pH:	Not measured

Melting Point / Freezing Point:	Not measured
Initial Boiling Point and Boiling Range:	Not measured
Flash Point:	92°F (33.3°C)
Evaporation Rate (Ether = 1):	Not measured
Flammability (Solid, Gas):	Not applicable
Upper / Lower Flammability or Explosive Limits	
Lower Flammability Limit:	Not measured
Upper Flammability Limit:	Not measured
Vapor Pressure (Pa):	Not measured
Vapor Density:	Not measured
Relative Density:	Not measured
Solubility in Water:	Not measured
Partition Coefficient n-octanol / water (Log Kow):	Not measured
Auto-ignition Temperature:	Not measured
Decomposition Temperature:	Not measured
Viscosity (cSt):	Not measured
Density:	7.41 lb/gal

10. STABILITY AND REACTIVITY

Reactivity:	Hazardous Polymerization will not occur.
Chemical Stability:	Stable under normal circumstances.
Possibility of Hazardous Reactions:	No data available
Conditions to Avoid:	Avoid high temperatures, heating, etc.
Incompatible Materials:	Explosives, UN class 2.3 gasses, oxidizing substances, organic peroxides, and toxic/biohazardous substances.
Hazardous Decomposition Products:	No hazardous decomposition data available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	<p>Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.</p> <p>Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.</p> <p>2-butoxyethanol and its acetate are readily absorbed through the skin and will cause harmful effects on the blood.</p> <p>Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).</p>
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Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Xylene (1330-20-7)	4,299.00, Rat - Category: 4	1,548.00, Rabbit - Category: 4	No data available	20.00, Rat - Category: NA	5,000.00, Rat - Category: 4
Naphtha (petroleum), heavy aromatic (64742-94-5)	> 5,000.00, Rat - Category: NA	>2,000.00, Rabbit - Category: 5	No data available	No data available	No data available
2-Ethylhexyl nitrate (27247-96-7)	No data available	No data available	No data available	No data available	No data available
2-Butoxy-ethanol (111-76-2)	1,414.00, Guinea Pig - Category: 4	1,200.00, Guinea Pig - Category: 4	No data available	No data available	No data available
Proprietary	3,200.00, Rat - Category: 5	No data available	No data available	No data available	No data available

1,2,4-trimethyl benzene	3,400.00, Rat - Category: 5	3,160.00, Rabbit - Category: 5	18.00, Rat - Category: 4	No data available	No data available
Naphthalene (91-20-3)	490.00, Rat - Category: 4	20,000.00, Rabbit - Category: NA	No data available	No data available	No data available
Phenol, 2,4-bis(1,1-dimethylethyl) (96-76-4)	>2,000.00, Rat - Category: 5	2,000.00, Rabbit - Category: 4	No data available	No data available	No data available
Benzene, 1-ethyl-2-methyl (611-14-3)	No data available	No data available	No data available	No data available	No data available

Carcinogen Data

CAS No.	Ingredient	Source	Value
91-20-3	Naphthalene	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: Yes Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No; A3
95-63-6	1,2,4-trimethyl benzene	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No established limit
96-76-4	Phenol, 2,4-bis(1,1-dimethylethyl)	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No established limit
111-76-2	2-butoxy-ethanol	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No; A3
611-14-3	Benzene, 1-ethyl-2-methyl	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No established limit
1330-20-7	Xylene	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No; A4
27247-96-7	2-ethylhexyl nitrate	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No established limit
Proprietary	Proprietary	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No established limit
64742-94-5	Naphtha (petroleum), heavy aromatic	OSHA NTP IARC ACGIH	Regulated Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; No established limit

Classification	Category	Hazard Description
Acute toxicity (oral)	5	May be harmful if swallowed. (Note: this GHS classification was not adopted by US OSHA).
Acute toxicity (dermal)	4	Harmful in contact with skin.
Acute toxicity (inhalation)	4	Harmful if inhaled.
Skin corrosion / irritation	2	Causes skin irritation.
Serious eye damage / irritation	2A	Causes serious eye irritation.
Respiratory sensitization	---	Not applicable
Skin sensitization	---	Not applicable
Germ cell mutagenicity	---	Not applicable
Carcinogenicity	2	Suspected of causing cancer.
Reproductive toxicity	2	Suspected of damaging fertility or the unborn child.
STOT – single exposure	---	Not applicable

STOT – repeated exposure	---	Not applicable
Aspiration hazard	1	May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Toxicity: Toxic to aquatic life with long lasting effects. See Section 3 for chemical-specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Xylene (1330-20-7)	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales
Naphtha (petroleum), heavy aromatic (64742-94-5)	45.00, Pimephales promelas	12.00, Daphnia magna	2.50 (72 hr), Skeletonema costatum
2-Ethylhexyl nitrate (27247-96-7)	Not available	Not available	Not available
2-Butoxy-ethanol (111-76-2)	1,474.00, Oncorhynchus mykiss	1,550.00, Daphnia magna	1,840.00 (72 hr), Pseudokirchneriella subcapitata
Proprietary	1,000.00, Fish (Piscis)	1,000.00, Daphnia magna	1,000.00 (72 hr), Selenastrum capricornutum
1,2,4-trimethyl benzene (95-63-6)	7.72, Pimephales promelas	3.60, Daphnia magna	2.356 (96 hr), Green algae
Naphthalene (91-20-3)	0.99, Oncorhynchus gorbuscha	1.60, Daphnia magna	68.21 (96 hr), Scenedesmus subspicatus
Phenol, 2,4-bis(1,1-dimethylethyl) (96-76-4)	Not available	0.50, Daphnia magna	9.85 (72 hr), Desmodesmus subspicatus
Benzene, 1-ethyl-2-methyl (611-14-3)	Not available	Not available	Not available

Persistence and Degradability: There is no data available on the preparation itself.

Bioaccumulative Potential: Not measured

Mobility in Soil: No data available

Results of PBT and vPvB Assessment: This product contains PBT/vPvB chemicals

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Destroy by liquid incineration. Use absorbent material and deposit in toxic landfill in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO / IATA
UN Number	UN1993	UN1993	UN1993
UN Proper Shipping Name	Flammable liquids, N.O.S. (2-ethylhexyl nitrate, Naphtha [petroleum], heavy aromatic)	Flammable liquids, N.O.S. (2-ethylhexyl nitrate, Naphtha [petroleum], heavy aromatic)	Flammable liquids, N.O.S. (2-ethylhexyl nitrate, Naphtha [petroleum], heavy aromatic)
Transport Hazard Class(es)	DOT Hazard Class: 3	IMDG: 3 Sub Class: Not applicable	Air Class: 3
Packing Group	III	III	III
		Marine Pollutant: Yes (Naphtha [petroleum],	

15. REGULATORY INFORMATION

Regulatory Overview:	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA):	All components of this material are either listed or exempt from listing on the TSCA Inventory.
EPCRA 302 Extremely Hazardous:	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 313 Toxic Chemicals:	1,2,4-trimethyl benzene 2-Butoxy-ethanol Naphthalene Xylene
Proposition 65 – Carcinogens (>0.0%):	Cumene Naphthalene
Proposition 65 – Developmental Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 – Female Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 – Male Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

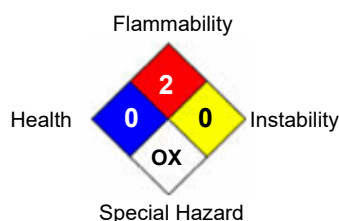


Proposition 65 Label Warning

WARNING: This product can expose you to chemicals including [Cumene, Naphthalene], which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION

Revision Date:	9/21/20 (Initial release)
Previous Revisions:	
Hazard Rating System:	



Company Policy or Disclaimer:

The information on this SDS is based on data which is considered to be accurate. MidContinental Chemical Company, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the products are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This SDS was prepared and is to be used for this product. If the product is used as a component in another product, this SDS information may not be applicable.