



Compliant SDS for GHS: HazCom 2012 / United States; WHMIS 2015 / Canada

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### SAFETY DATA SHEET

### **Diesel Cetane Boost**

		Date Version	 04/15/2017 8
GHS product identifier	: Diesel Cetane Boost		
Code	: ACB		
Product type	: Liquid.		
Identified uses	: Diesel Fuel Additive.		
Manufacturer	: AMSOIL INC. One AMSOIL Center Superior, WI 54880 Tel: +1 715-392-7101		
Initial Supplier (Canada)	: AMSOIL INC. Bordner, Ladner, Gervais Scotia Plaza, 40 King St W Toronto, ON, Canada M5H 3Y4 Tel: +1 416-367-6547		
Emergency telephone number (with hours of operation)	: CHEMTREC: Within USA and Canada: 1-800-424-9300; Outside USA and Canada: +1 703-741-5970 (collect calls a (24/7)	ccepted)	

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Combustible liquid. Harmful if swallowed, in contact with skin or if inhaled. Toxic to aquatic life with long lasting effects.
Precautionary statements	

(HHNOC)

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Prevention	: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from flames and hot surfaces No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	<ul> <li>Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.</li> </ul>
Storage	: Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise clas	ssified (HNOC)
Physical hazards not otherwise classified (PHNOC)	: None known.
Health hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other ide	<u>ntifiers</u>		
CAS number	: Not applicable.		
Product code	: ACB		
Ingredient name		%	CAS number
2-Ethylhexyl nitrate		80 - 100	27247-96-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

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

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.

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Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

Potential acute health effect	<u>s</u>	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	:	Harmful if inhaled.
Skin contact	1	Harmful in contact with skin.
Ingestion	1	Harmful if swallowed.
Over-exposure signs/sympt	on	<u>15</u>
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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See toxicological information (Section 11)

### Section 5. Fire-fighting measures

<u>Extinguishing media</u> Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet or water-based fire extinguishers.
Specific hazards arising from the chemical	: Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures For non-emergency : No action shall be taken involving any personal risk or without suitable training. personnel Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel". **Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

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: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Avoid contact with used product. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

Under conditions which may generate mists, the following exposure limits are recommended: ACGIH TLV TWA: 5 mg/m<sup>3</sup>; STEL: 10 mg/m<sup>3</sup>.

#### **United States**

None known.

#### Canada Occupational exposure limits

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None.

Appropriate engineering controls Environmental exposure controls	<ul> <li>Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.</li> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.</li> </ul>
Individual protection measur	<u>s</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Clear to light straw.
Odor	: Pungent.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: <-45°C (<-49°F)
Boiling point	: Not available.
Flash point	: Closed cup: 65°C (149°F) [Pensky-Martens.]

Date of issue : 04/15/2017

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Evaporation rate Flammability (solid, gas) Lower and upper explosive	:	Not available. Not available. Not available.
(flammable) limits	1	
Vapor pressure	1	0.027 kPa (0.2 mm Hg) [room temperature]
Vapor density	1	Not available.
Relative density	1	0.96
Solubility	1	Not available.
Solubility in water	1	12.6 g/l
Partition coefficient: n- octanol/water	:	5.24
Auto-ignition temperature	:	130°C (266°F)
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic: 0.018 cm²/s (1.8 cSt) (20°C) Kinematic: 0.0102 cm²/s (1.02 cSt) (40°C)
Volatility	1	Not available.

# Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredien	ıts.
Chemical stability	Unstable at temperatures greater than 100°C/212°F.	
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, we braze, solder, drill, grind or expose containers to heat or sources of ignition.	eld,
Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials.	
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products not be produced.	should

# Section 11. Toxicological information

Information on toxicological effects	
Acute toxicity	
There is no data available.	
Irritation/Corrosion	
There is no data available.	
Sensitization	
There is no data available.	

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<b>Carcinogenicity</b>					
There is no data available.					
Specific target organ toxicity	(s	ingle exposure)			
There is no data available.					
Specific target organ toxicity	(r	epeated exposure)			
There is no data available.					
Aspiration hazard					
There is no data available.					
Information on the likely	:	Dermal contact. Eye contact. Inhalation. Ingestion.			
routes of exposure					
Potential acute health effects					
Eye contact	:	No known significant effects or critical hazards.			
Inhalation	÷	Harmful if inhaled.			
Skin contact	÷	Harmful in contact with skin.			
Ingestion	÷	Harmful if swallowed.			
Symptoms related to the physical	sic	al, chemical and toxicological characteristics			
Eye contact	:	No known significant effects or critical hazards.			
Inhalation	:	No known significant effects or critical hazards.			
Skin contact	÷	No known significant effects or critical hazards.			
Ingestion	:	No known significant effects or critical hazards.			
Delayed and immediate effect	S	and also chronic effects from short and long term exposure			
<u>Short term exposure</u>					
Potential immediate effects	:	No known significant effects or critical hazards.			
Potential delayed effects	:	No known significant effects or critical hazards.			
Long term exposure					
Potential immediate effects	:	No known significant effects or critical hazards.			
Potential delayed effects	÷	No known significant effects or critical hazards.			
Potential chronic health effe	ct	<u>s</u>			
General	÷	No known significant effects or critical hazards.			
Carcinogenicity	÷	No known significant effects or critical hazards.			
Mutagenicity	÷	No known significant effects or critical hazards.			
Teratogenicity	:	No known significant effects or critical hazards.			
Developmental effects	÷	No known significant effects or critical hazards.			
Fertility effects	:	No known significant effects or critical hazards.			
-		-			

Numerical measures of toxicity Acute toxicity estimates



#### **Diesel Cetane Boost**

Route	ATE value
Oral	505.1 mg/kg
Dermal	1111.1 mg/kg
Inhalation (vapors)	11.11 mg/L

### Section 12. Ecological information

#### **Toxicity**

There is no data available.

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential	
Diesel Cetane Boost 2-Ethylhexyl nitrate	5.24 5.24	-	high high	
Mobility in soil				

# Soil/water partition coefficient (Koc)

: There is no data available.

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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## Section 14. Transport information

	DOT	TDG	IMDG	ΙΑΤΑ
UN number	NA1993	UN3082	UN3082	UN3082
UN proper shipping name	COMBUSTIBLE LIQUID, N.O. S. (2-Ethylhexyl nitrate). Marine pollutant (2-Ethylhexyl nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate). Marine pollutant (2-Ethylhexyl nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate)
Transport hazard class(es)	-	9		9
Packing group	111	Ш		111
Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional information	Non-bulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials, unless transported by vessel. This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173. 24 and 173.24a. <b>Remarks</b> Limited Quantity Exemption	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2. 45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail. <u>Remarks</u> Limited Quantity Exemption	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Remarks</u> Limited Quantity Exemption	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6. 1.1 and 5.0.2.8. <u>Remarks</u> Limited Quantity Exemption

**AERG** : 128, 171

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

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### Section 15. Regulatory information

U.S. Federal regulations	:	United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 311: Nitric acid
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	1	Not listed
Clean Air Act Section 602 Class II Substances	;	Not listed
DEA List I Chemicals (Precursor Chemicals)	1	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed
CADA 202/204		

#### SARA 302/304

#### **Composition/information on ingredients**

		SARA 302 TPQ		SARA 304 RQ	
Name	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Nitric acid	Yes.	1000	85.7	1000	85.7

#### SARA 304 RQ

: 1000000 lbs / 454000 kg [124931.4 gal / 472916.7 L]

#### SARA 311/312

Classification

: Fire hazard Immediate (acute) health hazard

#### Composition/information on ingredients

Name	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2-Ethylhexyl nitrate	Yes.	No.	No.	Yes.	No.

#### <u>SARA 313</u>

No products were found.

#### State regulations

- Massachusetts
- New York
- New Jersey
- None of the components are listed.None of the components are listed.
- ersev :
- Pennsylvania
- : None of the components are listed.
- California Prop. 65
- : None of the components are listed.
- No products were found.

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<u>Canada</u>	
<u>Canadian lists</u>	
Canadian NPRI	: None of the components are listed.
CEPA Toxic substances	: None of the components are listed.
Canada inventory	: All components are listed or exempted.

### Section 16. Other information

<u>History</u>	
Date of issue mm/dd/yyyy	: 04/15/2017
Date of previous issue	: 07/15/2015
Version	: 8
Prepared by	: AMSOIL INC.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its

subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be

used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue : 04/15/2017