

# SAFETY DATA SHEET

Revision: 11/16/2018



## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	Graphenoil TBN Booster	
<b>Company Name:</b>	Graphenoil 16310 Hollister St. Houston, TX 77066	<b>Phone Number:</b> 832-666-3143
<b>Web Site Address:</b>	www.graphenoil.com	
<b>Emergency Contact:</b>	CHEMTREC	<b>24 Hour Emergency Number:</b>
<b>Recommended use:</b>	TBN Booster	800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture:** Acute Toxicity (Oral): Category 4  
Skin Corrosion / Irritation: Category 1B  
Target Organ System Toxicity (Repeated Exposure): Category 2  
Aquatic Toxicity (Acute): Category 1  
Aquatic Toxicity (Chronic): Category 1

**Label Elements:**

**Signal Word:**

Danger

**Pictogram:**



**GHS Hazard Phrases:** Harmful if swallowed. May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**GHS Precaution Phrases** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fumes/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** IF exposed or concerned: Get medical advice/attention.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. Collect spillage.  
IF INHALED: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor if you feel unwell.  
IF INGESTED: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

**GHS Storage and Disposal Phrases:** Store in accordance with local regulations.  
Dispose of contents / container (in accordance with local / regional / national / international regulation).

**Hazards not otherwise classified:** May cause leucodermia.

**Supplemental information:** >10% of the mixture consists of component(s) of unknown acute inhalation toxicity.  
<20% of the mixture consists of component(s) of unknown acute dermal toxicity.

## 3. COMPOSITION / INFORMATION / INGREDIENTS

CAS Number	Hazardous Components (Chemical Name)	Concentration
184378-08-3	Alkyl diphenylamine	76– 85%
128-39-2	2, 4,-di-tertiary-butylphenol	7-9%
128-39-2	2, 4,6,-tri-tertiary-butylphenol	0-2%
88-18-6	Ortho-tertiary-butylphenol	0-0.1%
64741-89-5	Light paraffinic petroleum distillates	8 – 12 %
732-26-3	Mixed butylated phenols	1 – 10%

#### 4. **FIRST AID MEASURES**

<b>In Case Of Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration and contact a physician immediately. If breathing is difficult, administer oxygen and contact a physician immediately.
<b>In Case Of Skin Contact:</b>	Wash skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing and shoes separately before reuse.
<b>In Case Of Eye Contact:</b>	Immediately flush with plenty of water, alternately lifting the upper and lower eyelids. If appropriate, after 5 minutes, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention immediately.
<b>In Case Of Ingestion:</b>	Get medical attention immediately. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never induce vomiting or give anything by mouth to a victim who is unconscious or having convulsions. Wash out mouth with water.
<b>Most important symptoms/effects, acute and delayed</b>	Inhalation of vapors or mists of the product may be irritating to the respiratory system.

#### 5. **FIREFIGHTING MEASURES**

<b>Flash Pt:</b>	192 C (378 F)
<b>Explosive Limits:</b>	Not determined
<b>Autoignition Pt:</b>	Not determined
<b>Suitable Extinguishing Media:</b>	Carbon dioxide, dry chemical powder, or appropriate foam
<b>Fire Fighting Instructions:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand MSHA / NIOSH (approved or equivalent) and full protective gear. Avoid breathing smoke and vapor.
<b>Flammable Properties and Hazards:</b>	Fire may produce irritating, corrosive and/or toxic gases.

#### 6. **ACCIDENTAL RELEASE MEASURES**

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep personnel removed and upwind of spill. Eliminate all ignition sources. Keep unnecessary and unprotected personnel from entering.
<b>Environmental Precautions: Steps To Be Taken In Case Material Is Released Or Spilled:</b>	<p><b>Initial Containment:</b> Approach release from upwind. Eliminate all sources of ignition - heat, sparks, flame, electricity, and impact. Contain spilled material with dikes or absorbents. Do not allow material to enter soil, surface water, or sewer system. Stop the source of the leak, if it is safe to do so.</p> <p><b>Large Spills Procedure:</b> Contain spilled material. Vacuum or sweep up material and place in a disposal container. Absorb residue with inert material (e.g., dry sand or earth,) then place in a chemical waste container. Do not flush to sewer.</p> <p><b>Small Spills Procedure:</b> Contain spilled material. Absorb with inert material and place in disposal container.</p> <p><b>Miscellaneous:</b> Report spills to local authorities and / or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.</p>

#### 7. **HANDLING AND STORAGE**

<b>Precautions To Be Taken In</b>	Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid
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<b>Handling:</b>	breathing vapors or spray mists. Keep away from food and drinking water. Secure container after each use. Store in a cool dry, secure area. Keep out of reach of children. Protect containers against physical damage.
<b>Precautions To Be Taken In Storing:</b>	Store in a tightly closed container. Store in a cool, dry, well-ventilated area.
<b>Other Precautions:</b>	<b>Container Warnings:</b> Empty containers contain residue (solid, liquid, and / or vapor) and can be dangerous. Empty containers should be completely drained, properly closed and promptly returned to a drum reconditioner or disposed of properly.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines:

- Diphenylamine  
ACGIH TWA 10 mg/m<sup>3</sup>

### Respiratory Equipment (Specify Type):

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU.) Where risk assessment shows air-purifying respirators are appropriate, use a dust mask type N95 (US) or type P1 (EN 143) respirator.

### Eye Protection:

Chemical safety goggles.

### Skin Protection:

Wear protective, chemical resistant gloves to minimize skin contamination. Wear chemical resistant boots or overshoes. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Wash hands thoroughly after handling.

### Engineering Controls (Ventilation etc.):

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors or particles below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid
<b>Appearance:</b>	Amber liquid
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not determined
<b>Melting Point:</b>	Not determined
<b>Boiling Point:</b>	Not determined
<b>Autoignition Pt:</b>	Not determined
<b>Flash Pt:</b>	192 C (378 F)
<b>Explosive Limits:</b>	Not determined
<b>Upper / Lower Flammability or Explosive Limits:</b>	Not determined
<b>Specific Gravity (Water = 1):</b>	1.01
<b>Vapor Pressure (vs. Air or mm Hg):</b>	Not determined
<b>Vapor Density (vs. Air = 1):</b>	Not determined
<b>Relative Density:</b>	8.02
<b>Evaporation Rate:</b>	Not determined
<b>Solubility in Water:</b>	Insoluble
<b>pH:</b>	Not determined
<b>Percent Volatile:</b>	Not determined
<b>Partition Coefficient: n-octanol / water:</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity:</b>	189 at 40 C (104 F), 17.4 at 100 C (212 F)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under ordinary conditions of use and storage.
<b>Incompatibility - Materials To Avoid:</b>	Strong oxidizing agents, strong acids.
<b>Hazardous Decomposition Or Byproducts:</b>	Carbon monoxide, carbon dioxide, nitrogen oxides.
<b>Hazardous Polymerization:</b>	Hazardous polymerization is not expected to occur.

Conditions To Avoid: Incompatibles.

## 11. TOXICOLOGICAL INFORMATION

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>Skin Effects:</b>	Corrosive effects. May cause leukoderma. Use good laboratory/workplace procedures including personal protective clothing.
<b>Eye Effects:</b>	Causes serious eye irritation. Risk of serious eye damage to eyes.
<b>Acute Oral Effects:</b>	May be harmful if swallowed. Aspiration hazard. If material is misted or if vapors are generated, exposure may cause irritation of mucous membranes and the respiratory tract. Can enter lungs and cause damage.
<b>Acute Inhalation Effects:</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion:</b>	Harmful if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine.
<b>Germ Cell Mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	No data available.
<b>Target Organs:</b>	May cause liver damage based on animal data.
<b>STOT - Single Exposure:</b>	No data available
<b>STOT - Repeated Exposure:</b>	No data available
<b>Acute Toxicity</b>	Harmful if swallowed. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. May be harmful if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. The product hasn't been tested. The statement derived from the properties of the individual components.
<b>Persistence and Degradability:</b>	No data available.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.
<b>PBT/VPvB Assessment:</b>	No data available.
<b>Other Adverse Effects:</b>	No data available.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method:</b>	Do not dispose of into waste water treatment facilities. Treat or dispose of waste material in accordance with all local, state / provincial, and national requirements. Note that these regulations may also apply to empty containers, liners and rinsate. Processing, use dilution or contamination of this product may cause its physical and chemical properties to change.
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## 14. TRANSPORT INFORMATION

### DOT Transportation

**UN Number:** UN3082

**Packing Group:** III

**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYLPHENOLS)

**Marine Pollutant:** Yes (2,6-di-tertiary-butylphenol)

### Vessel (IMDG): Regulated Marine Pollutant

**UN Number:** UN3082

**Packing Group:** III

**UN Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYLPHENOLS)

**Marine Pollutant:** Yes (2,6-di-tertiary-butylphenol)

## 15. REGULATORY INFORMATION

**EPCRA 311/312 Categories:** 1. Immediate (Acute) Health Effects: YES  
2. Delayed (Chronic) Health Effects: YES  
3. Fire Hazard: NO  
4. Sudden Release of Pressure Hazard: NO  
5. Reactivity Hazard: NO

### U.S. Federal Regulations

#### Environmental Regulations

Extremely Hazardous Substances: Not applicable to any components in this product.

SARA 302 / 304 Emergency Planning and Notification substances: Not applicable to any components in this product.

Hazardous Substances (CERCLA 302): Not listed.

Clean Water Act (CWA) 307 Priority Pollutants: No

Clean Water Act (CWA) 311 Hazardous Substances: No

Clean Air Act (CAA) 112 (r) Accidental Release Prevention

Substances: Not applicable to any components in this product.

**US. California Proposition 65:** This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**Threshold Planning Quantity (TPQ):** Not applicable.

**TSCA Inventory Status:** All components are included or are exempted from listing on the US Toxic Substance Control Act Inventory.

This product does not contain any chemicals subject to the reporting requirements of TSCA Section 12(b) if exported from the United States.

**State Regulations:** State specific information is available upon request from MidContinental Chemical Company, Inc.

#### International Regulations

**Canada:** All components are compliant with or are exempted from listing on the Canadian Domestic Substance List.

**WHMIS (Canada):** B-3, D-2A, D-2B

**European Union:** All components are included or are exempted from listing on the European Inventory of Existing Commercial Chemical Substances of the European List of Notified Chemical Substances.

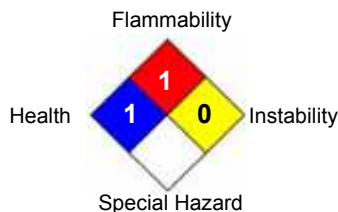
International inventory status information is available upon request from MidContinental Chemical Company for the following countries: Australia, China, Korea (TCCL,) Philippines (RA6969,) or Japan.

## 16. OTHER INFORMATION

**Revision Date:** 11/16/2018- Overall Update, Regulatory Update  
03/27/2015 – GHS Compliant

**Previous Revisions:** 01/31/2011 – Initial Release

**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.

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