# SAFETY DATA SHEET



BG EPR™ Engine Performance Restoration

# 1. Product and company identification

### Manufacturer

: BG Products Inc. 701 S. Wichita Street Wichita, KS, 67213, USA www.bgprod.com

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

	The substance of mixture and uses advised against
Identified uses	
Lubricants and additives	
MSDS #	: 109
Validation date	: 1/27/2014.
Responsible name	: Kolin Anglin, Environmental Coordinator 316-265-2686 msds@bgprod.com
In case of emergency	: (800) 424-9300 (CHEMTREC)
2. Hazards iden	tification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 32%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Flammable liquid and vapor. Causes serious eye irritation.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Wash hands thoroughly after handling.
Response	: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
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 classified	: None known.

# 3. Composition/information on ingredients

Substance/mixture	÷	Mixture
Other means of identification		Not available.
CAS number/other identifiers		
CAS number : Not applicab		Not applicable.
Product code	÷	109
Ingredient name		
Distillates (petroleum), hydrotreated light paraffinic cyclohexanone 2-(propyloxy)ethanol		

4-methylpentan-2-ol

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

There are no 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.

%

30 - 60

15 - 40

5 - 10

1 - 5

**CAS number** 

64742-55-8

108-94-1

108-11-2

2807-30-9

### 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 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 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.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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 adverse health effects persist or are severe. 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/eff	ec	ts, acute and delayed
Potential acute health effect	<u>s</u>	
Eve contact		Causas acrisus ava irritation

i otentiai acute nealth enects	
Eye contact :	Causes serious eye irritation.
Inhalation :	No known significant effects or critical hazards.
Skin contact :	No known significant effects or critical hazards.
Ingestion :	Irritating to mouth, throat and stomach.
Over-expessive signs/symptom	

Over-exposure signs/symptoms

#### 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	n (Castion 14)

See toxicological information (Section 11)

## 5. Fire-fighting measures

#### **Extinguishing media** Suitable extinguishing : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and from the chemical the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Hazardous thermal Decomposition products may include the following materials: carbon dioxide decomposition products carbon monoxide **Special protective actions** Promptly isolate the scene by removing all persons from the vicinity of the incident if 2 for fire-fighters 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. : Fire-fighters should wear appropriate protective equipment and self-contained breathing **Special protective** apparatus (SCBA) with a full face-piece operated in positive pressure mode. equipment for fire-fighters

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. 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 specialised 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 non-emergency 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).	
Methods and materials for co	ntainment and cleaning up	

Date of issue/Date of revision

### 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: 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 of 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.

# 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. 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. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. 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.

## 8. Exposure controls/personal protection

#### **Control parameters**

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated light paraffinic	ACGIH TLV (United States, 3/2012). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 6/2009). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist OSHA PEL (United States, 6/2010). TWA: 5 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 3/2012). Absorbed through skin.
	TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes.
ate of issue/Date of revision : 1/27/2014. Date of previous iss	ve : 9/6/2013. Version : 2.1 4/1

# 8. Exposure controls/personal protection

	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 100 mg/m <sup>3</sup> 8 hours.
	NIOSH REL (United States, 6/2009).
	Absorbed through skin.
	TWA: 25 ppm 10 hours.
	TWA: 100 mg/m <sup>3</sup> 10 hours.
	OSHA PEL (United States, 6/2010).
	TWA: 50 ppm 8 hours.
	TWA: 200 mg/m <sup>3</sup> 8 hours.
4-Methyl-2-pentanol	ACGIH TLV (United States, 3/2012).
	Absorbed through skin.
	TWA: 25 ppm 8 hours. TWA: 104 mg/m <sup>3</sup> 8 hours.
	STEL: 40 ppm 15 minutes.
	STEL: 167 mg/m <sup>3</sup> 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 100 mg/m <sup>3</sup> 8 hours.
	STEL: 40 ppm 15 minutes.
	STEL: 165 mg/m <sup>3</sup> 15 minutes.
	NIOSH REL (United States, 6/2009).
	Absorbed through skin.
	TWA: 25 ppm 10 hours.
	TWA: 100 mg/m <sup>3</sup> 10 hours.
	STEL: 40 ppm 15 minutes.
	STEL: 165 mg/m <sup>3</sup> 15 minutes.
	OSHA PEL (United States, 6/2010).
	Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 100 mg/m <sup>3</sup> 8 hours.
Appropriate engineering controls	: 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.
Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure
controls	they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>ures</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	<ul> <li>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</li> </ul>
	the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	

# 8. Exposure controls/personal 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# 9. Physical and chemical properties

Physical state	: Liquid.
Flash point	: Closed cup: 43°C (109.4°F) [Pensky-Martens.]
Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Color	: Amber. [Light]
Odor	: oil
рН	: Not available.
<b>Boiling/condensation point</b>	: Not available.
Melting/freezing point	: Not available.
Specific gravity	: 0.8773
Vapor pressure	: Not available.
Vapor density	: Not available.
Odor threshold	: Not available.
Evaporation rate	: Not available.
Solubility	: Insoluble in the following materials: cold water and hot water.
Pour point	: -21°C (-5.8°F)
Density	: 7.314 (lbs/gal)

# 10. Stability and reactivity

Reactivity Chemical stability	<ul><li>No specific test data related to reactivity available for this product or its ingredients.</li><li>The product is stable.</li></ul>					
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, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.					
Incompatible materials	<ul> <li>Reactive or incompatible with the following materials: oxidizing materials</li> </ul>					
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.					
Date of issue/Date of revision	: 1/27/2014. Date of previous issue : 9/6/2013. Version : 2.1 6/13					

# Section 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated light paraffinic	LC50 Inhalation Dusts and mists	Rat	3900 mg/m <sup>3</sup>	4 hours
Cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LD50 Oral	Rat	1800 mg/kg	-
2-(propyloxy)ethanol	LD50 Oral	Rat	3089 mg/kg	-
4-Methyl-2-pentanol	LD50 Oral	Rat	2590 mg/kg	

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 250 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Human	-	48 hours 50 Percent	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
2-(propyloxy)ethanol	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Guinea pig	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Cyclohexanone	-	3	-

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
4-Methyl-2-pentanol	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure) Not available.

# Section 11. Toxicological information

Aspiration hazard Not available.				
Information on the likely routes of exposure	:	Not available.		
Potential acute health effects				
Eye contact	:	Causes serious eye irritation.		
Inhalation	:	No known significant effects or critical ha	azards.	
Skin contact	: No known significant effects or critical hazards.			
Ingestion	:	Irritating to mouth, throat and stomach.		
Symptoms related to the phy	sic	al, chemical and toxicological charact	<u>eristics</u>	
Eye contact	:	Adverse symptoms may include the follo pain or irritation watering redness	owing:	
Inhalation	1	No specific data.		
Skin contact	:	No specific data.		
Ingestion	4	No specific data.		
Delayed and immediate effec	ts	and also chronic effects from short an	<u>d long term exposure</u>	
Short term exposure				
Potential immediate effects		Not available.		
Potential delayed effects	÷	Not available.		
Long term exposure Potential immediate effects	:	Not available.		
Potential delayed effects	:	Not available.		
Potential chronic health effe	ect	<u>s</u>		
Not available.				
General	:	No known significant effects or critical ha	azards.	
Carcinogenicity	:	No known significant effects or critical ha	azards.	
Mutagenicity	:	No known significant effects or critical ha	azards.	
Teratogenicity	1	No known significant effects or critical ha	azards.	
<b>Developmental effects</b>	1	No known significant effects or critical ha	azards.	
Fertility effects	1	No known significant effects or critical ha	azards.	
Numerical measures of toxic	ty			
Acute toxicity estimates			1	
Route			ATE value	
Oral			13158.4 mg/kg	
Inhalation (vapors) Inhalation (dusts and mists)			37.4 mg/l 8.288 mg/l	
			0.200 mg/i	

# 12. Ecological information

#### <u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
Cyclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Acute LC50 527000 µg/l Fresh water Chronic EC10 3.56 mg/l Fresh water	Fish - Pimephales promelas Algae - Chlamydomonas reinhardtii - Exponential growth phase	96 hours 72 hours

#### Persistence and degradability

Not available.

**Bioaccumulative potential** 

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Cyclohexanone	0.81	-	low
2-(propyloxy)ethanol	0.08	-	low
4-Methyl-2-pentanol	1.43	-	low

#### Mobility in soil

e.
e

coefficient (K<sub>oc</sub>) Other adverse effects

Soil/water partition

: No known significant effects or critical hazards.

### 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 at all times 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 emptied 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUIDS, N.O. S. (4-methylpentan-2-ol)	FLAMMABLE LIQUIDS, N.O.S. (4-methylpentan-2-ol)	FLAMMABLE LIQUIDS, N.O.S. (4-methylpentan-2-ol)
Date of issue/Date of	revision : 1/27/2014. Da	te of previous issue : 9/6/2013.	Version : 2.1 9/1:

BG EPR™ Engine Performance Restoration

Transport	3		3		3		
hazard class(es)	RAMMABLE LIDIO					<b>8</b>	
Packing group	111		111		111		
Environmental hazards	No.		No.		No.		
Additional information			Emergency schedules (EmS) F-E, S-E		Air Car limi Lim Pas	Passenger and Cargo AircraftQuantity limitation: 60 I Cargo Aircraft OnlyQuantity limitation: 220 L Limited Quantities - Passenger AircraftQuantity limitation: 10 L	
Special precautio	ns for user :		cure. Ensure th	at persons trans	•		
Fransport in bulk o Annex II of MA /3/78 and the IBC	RPOL	Not available.					
	atory info	rmation					
J.S. Federal regu		TSCA 8(a) PA	R: Phosphorod	lithioic acid, O,0	D-di-C1-14-alk	vl esters, zinc	salts
<b>U</b>				tial exemption:		•	
		United States	inventory (TS	CA 8b): All com	ponents are li	sted or exemp	ted.
		Clean Water A salts	Act (CWA) 307	Phosphorodith	ioic acid, O,O	di-C1-14-alkyl	esters, zinc
Cloop Air Act C	Section 112 :	Listed					
(b) Hazardous Pollutants (HAI							
(b) Hazardous							
(b) Hazardous Pollutants (HAI	Ps)	ingredients					
(b) Hazardous / Pollutants (HAI <u>SARA 302/304</u>	<sup>o</sup> s) Iformation on	<u>ingredients</u>					
(b) Hazardous / Pollutants (HAI <u>SARA 302/304</u> <u>Composition/ir</u>	<b>Ps)</b> Iformation on Pre found.	<u>ingredients</u> Not applicable.					
(b) Hazardous / Pollutants (HAI SARA 302/304 Composition/in No products we	<b>Ps)</b> Iformation on Pre found.						
(b) Hazardous / Pollutants (HAI <u>SARA 302/304</u> <u>Composition/in</u> No products we SARA 304 RQ	<b>Ps)</b> Iformation on Pre found.	Not applicable. Fire hazard Immediate (act	ute) health haz				
(b) Hazardous / Pollutants (HAI SARA 302/304 Composition/in No products we SARA 304 RQ SARA 311/312	<b>Ps)</b> Iformation on Pre found. :	Not applicable. Fire hazard Immediate (act Delayed (chror	ute) health haz				
(b) Hazardous / Pollutants (HAI <u>SARA 302/304</u> <u>Composition/in</u> No products we <u>SARA 304 RQ</u> <u>SARA 311/312</u> Classification	<b>Ps)</b> Iformation on Pre found. :	Not applicable. Fire hazard Immediate (act Delayed (chror <u>ingredients</u>	ute) health haz		Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard

# 15. Regulatory information

• •					
Distillates (petroleum), hydrotreated light paraffinic	No.	No.	No.	Yes.	Yes.
Distillates (petroleum), hydrotreated heavy paraffinic	No.	No.	No.	No.	Yes.
2-(propyloxy)ethanol	Yes.	No.	No.	Yes.	No.
4-methylpentan-2-ol	Yes.	No.	No.	No.	Yes.
cyclohexanone	Yes.	No.	No.	Yes.	Yes.

#### SARA 313

	Product name	CAS number
Form R - Reporting requirements	2-(propyloxy)ethanol	2807-30-9
Supplier notification	2-(propyloxy)ethanol	2807-30-9

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations	
Massachusetts	<ul> <li>The following components are listed: MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT PARAFFINIC; METHYL ISOBUTYL CARBINOL; CYCLOHEXANONE</li> </ul>
New York	: The following components are listed: Cyclohexanone
New Jersey	The following components are listed: MINERAL OIL (UNTREATED and MILDLY TREATED); MINERAL OIL (UNTREATED and MILDLY TREATED); GLYCOL ETHERS; METHYL AMYL ALCOHOL; 2-PENTANOL, 4-METHYL-; CYCLOHEXANONE
Pennsylvania	<ul> <li>The following components are listed: GLYCOL ETHERS; 2-PENTANOL, 4-METHYL-; CYCLOHEXANONE</li> </ul>
United States inventory (TSCA 8b)	: All components are listed or exempted.
<u>Canada</u>	
WHMIS (Canada)	<ul> <li>Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).</li> <li>Class D-1B: Material causing immediate and serious toxic effects (Toxic).</li> <li>Class D-2B: Material causing other toxic effects (Toxic).</li> </ul>
<u>Canadian lists</u>	
Canadian NPRI	: None of the components are listed.
<b>CEPA Toxic substances</b>	: None of the components are listed.
Canada inventory	: All components are listed or exempted.
This product has been class	ified in accordance with the bazard criteria of the Controlled Products Populations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

International lists	: Australia inventory (AICS): All components are listed or exempted.
	China inventory (IECSC): All components are listed or exempted.
	Japan inventory: Not determined.
	Korea inventory: All components are listed or exempted.
	Malaysia Inventory (EHS Register): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
	Philippines inventory (PICCS): All components are listed or exempted.
	Taiwan inventory (CSNN): Not determined.

11/13

## **16.** Other information

Hazardous Material Information System (U.S.A.)

Health		2
Flammability		2
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>	
Date of printing	: 1/27/2014.
Date of issue/Date of revision	: 1/27/2014.
Date of previous issue	: 9/6/2013.
Version	: 2.1
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

BG EPR™ Engine Performance Restoration

### 16. Other information

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.