



# Material Safety Data Sheet

NFPA	HMIS	PPE	Symbol(s)						
	<table border="1"><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>1</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	2	Fire Hazard	1	Reactivity	0		
Health Hazard	2								
Fire Hazard	1								
Reactivity	0								

Preparation Date January 2011

Revision Date 7-November-2011

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Description:** Bestolife 270  
**MSDS #:** 0070 034G  
**Recommended Use** For industrial use only

**Manufacturer** Bestolife Corporation  
2777 Stemmons Freeway, Suite 1800  
Dallas, Texas 75207  
USA  
Internet: www.bestolife.com

**Telephone Number** (214) 631-6070

**Emergency Telephone Number** CHEMTREC: 800-424-9300 or 703-527-3887 (Transportation Emergencies; 24-hours/day)

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

<b>Appearance</b> Black	May cause skin irritation <b>Physical State</b> Solid.	<b>Odor</b> Petroleum odor.
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### Potential Health Effects

**Principle Routes of Exposure** The two major means of exposure are skin absorption and ingestion.

### Acute Effects

**Eyes** Contact with eyes may cause irritation.  
**Skin** Skin contact may cause irritation.  
**Inhalation** Not an expected route of entry.  
**Ingestion** This product may be absorbed by the digestive system. Ingestion can result in both acute and chronic overexposure.

### Chronic Effects

Prolonged and repeated contact with the product may cause a defatting of the skin, dermatitis, folliculitis and/or oil acne.

**See Section 11 for additional Toxicological information.**

**Aggravated Medical Conditions** Preexisting eye or skin disorders may be aggravated by prolonged contact with this product.

**Potential Environmental Effects** No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Lubricating greases	74869-21-9	30-60
Lead	7439-92-1	40-70
Carbon Black	1333-86-4	0.1-1

Other Non-Hazardous Ingredients  
 Contains: <3% DMSO-extractable components

#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Flush with copious amounts of water. Get immediate medical attention.
<b>Skin Contact</b>	Wash thoroughly with soap and water. If irritation occurs, get medical attention.
<b>Inhalation</b>	Remove from exposure. Get medical attention if experiencing cough, irritation or difficult breathing.
<b>Ingestion</b>	Get immediate medical attention. DO NOT INDUCE VOMITING! Possible aspiration hazard.
<b>Notes to Physician</b>	The hydrocarbons contained in this product are mild irritants of the eyes and mucous membranes, central nervous system depressants, and primary chemical irritants of the skin. Lead and its inorganic compounds are neurotoxins which may produce peripheral neuropathy. Ingestion or inhalation of lead can pose risk to developing fetuses and may also impair the reproductive systems in both men and women. Lead can damage the kidneys, hematopoietic and central nervous system. For an overview of the effects of lead exposure, consult Appendix A of OSHA's Occupational Exposure to Lead (29 C.F.R. Section 1910.1025). Prolonged or repeated skin contact, especially with poor personal hygiene, may cause skin disorders. For combustion product effects see Hazardous Combustion Products in Section 5. Fire-Fighting Measures.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	No information available
<b>Suitable Extinguishing Media</b>	Dry chemical, water fog, foam, or carbon dioxide may be suitable for extinguishing fires involving this product.
<b>Unsuitable extinguishing media.</b>	No information available
<b>Explosion Limits</b>	
<b>Hazardous Combustion Products</b>	Combustion products are highly dependent on the combustion conditions. CO, CO <sub>2</sub> , CaO, oxygenates, and unidentified organic compounds may be formed during combustion. High temperature may produce metal fume, vapor, and/or dust, Combustion products may cause effects of overexposure as noted in Section 2. Hazards Identification, They may also cause vomiting; uncoordinated body movements; stupor; dizziness; coma; convulsion; drowsiness; tachypnea; nausea; paresthesias; dyspnea; asphyxiation; mild to severe eye, skin or respiratory tract irritation; cough; pneumoconiosis and/or lung damage, Other unidentified health effects may occur.
<b>Impact Sensitivity</b>	Not applicable.
<b>Sensitivity to static discharge</b>	Not applicable.
<b>Specific Hazards Arising from the Chemical</b>	Product fume and/or vapor may be irritating or toxic if inhaled. The product, or its dust, can react vigorously with strong oxidizing agents. Combustion products are highly dependent on the combustion conditions. CO, CO <sub>2</sub> , oxygenates, and unidentified organic compounds may be formed during combustion. High temperatures may produce metal fume, vapor, and/or dust. Combustion products may cause effects of overexposure as noted in Section 2. Hazards Identification. They may also cause vomiting; uncoordinated body movements; stupor; dizziness; coma; convulsion; drowsiness; tachypnea; nausea; paresthesias; dyspnea; asphyxiation; mild to severe eye, skin or respiratory tract irritation; cough; pneumoconiosis and/or lung damage. Other unidentified health effects may occur.

**Protective Equipment and Precautions for Firefighters**

Use full-body protection and full-face, self-contained breathing apparatus operated in a positive-pressure mode. Use water spray (fog) to cool containers and disperse vapors.

**NFPA****Health 2****Flammability 1****Instability 0****6. ACCIDENTAL RELEASE MEASURES****Personal Precautions  
Environmental Precautions**

Avoid contact with the skin and the eyes.  
Keep petroleum products out of streams and waterways. Assure conformity with applicable government regulations.

**Methods for cleaning up  
Other Information**

Clean area with an appropriate cleanser.  
Not applicable

**7. HANDLING AND STORAGE****Handling**

The two major means of metal absorption are inhalation and ingestion. After use, always wash hands before smoking, eating, or drinking. Smoking, eating, and drinking should be confined to uncontaminated areas. Work clothes and equipment should remain in designated areas. Before reuse, launder contaminated clothing separate from personal clothing. Avoid skin contact and use personal protection when handling product, waste product, or contaminated equipment. Wash with soap and water after use. Prolonged and repeated contact can cause defatting action of the skin and may cause disorders such as dermatitis, folliculitis, and oil acne. This product is intended for industrial use only. Isolate from children and their environment. This product may separate. Stir well before use. The flash point of this product depends on the degree of separation.

**Storage**

Store in a cool, dry area where accidental contact with acids is not possible. Do not store or handle near high temperature or open flame. Keep storage containers closed when not in use.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Component	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico OEL (TWA)
Lead	TWA: 0.05 mg/m <sup>3</sup>	50	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.15 mg/m <sup>3</sup>
Carbon Black		3.5	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>

NIOSH IDLH: Not applicable.

**Engineering Measures**

No special ventilation requirements under conditions of normal use (air concentrations below PEL/TLV levels).

**Personal Protective Equipment****Eye/Face Protection**

Vented goggles or safety glasses with side shields should be worn when using this product.

**Skin Protection**

Clothing appropriate for an industrial environment should be worn.

**Respiratory Protection**

No respiratory equipment is required for normal use.

**General Hygiene Considerations**

When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Black	<b>Odor</b>	Petroleum odor
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Solid
<b>pH</b>	No information available	<b>Flash Point</b>	196 °C / 385 °F
<b>Flash Point Method</b>	ASTM D 92, C.O.C.	<b>Autoignition Temperature</b>	No information available
<b>Boiling Point/Range</b>	288 °C / 550 °F	<b>Melting Point</b>	No information available
<b>Dropping Point</b>	177 °C / 350 °F	<b>Flammability Limits in Air</b>	No information available
<b>Vapour Density</b>	>1	<b>Vapour Pressure</b>	No information available
<b>Specific Gravity</b>	2.3	<b>Solubility</b>	Negligible
<b>Partition Coefficient (n-octanol/water)</b>	No information available	<b>Viscosity</b>	No information available
<b>Evaporation Rate</b>	<1	<b>Freezing Point</b>	No information available

**10. STABILITY AND REACTIVITY**

**Chemical Stability**  
**Conditions to Avoid**  
**Incompatible Products**  
**Hazardous Decomposition Products**  
**Possibility of Hazardous Reactions**

Stable under recommended storage and handling conditions.  
 Heat, flames and sparks.  
 Strong oxidizers or acids.  
 Under normal temperatures this product will not decompose.  
 None under normal use

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lubricating greases	2280 mg/kg ( Rat )		
Carbon Black	15400 mg/kg ( Rat )	3 g/kg ( Rabbit )	

#### Irritation

Product may cause irritation to the eyes and/or skin. Ingestion of the product may cause gastrointestinal irritation and upset.

#### Chronic Toxicity

#### Carcinogenicity

Passes IP 346 Method <3% DMSO-extractable components

Component	ACGIH	IARC	NTP	OSHA	Mexico
Lead	TWA: 0.05 mg/m <sup>3</sup>	Group 2A	Reasonably Anticipated To Be A Human Carcinogen	X	A3
Carbon Black	TWA: 3 mg/m <sup>3</sup>	Group 2B			

#### IARC: (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Lubricating greases		LC50 > 2000 mg/L <i>Salmo gairdneri</i> 96 h		
Lead		LC50 = 0.44 mg/L <i>Cyprinus carpio</i> 96 h LC50 = 1.17 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 = 1.32 mg/L <i>Oncorhynchus mykiss</i> 96 h		EC50 = 600 µg/L 48 h
Carbon Black				EC50 > 5600 mg/L 24 h

**Persistence and Degradability**  
**Bioaccumulation**  
**Mobility in Environmental Media**

No information available.  
 No information available.  
 No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste disposal methods

Discard in accordance with local, state, and federal regulations. Empty containers are exempt from RCRA Subtitle C if they contain no more than 2.5 cm of their original contents in the bottom of the container or less than 3% of the original net weight (less than 0.3% by weight for containers over 110 gallons), or if the residue is analyzed and demonstrated to be nonhazardous.

#### Contaminated Packaging

"Empty" containers retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY AND/OR DEATH. "Empty" containers should be completely drained and properly sealed. Recycle or discard plastic liner, pail or drum in accordance with local, state, and federal regulations. "Empty" drums may be sent to a drum reconditioner.

Component	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes

Lead	(hazardous constituent - no waste number)	Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K064, K065, K066, K069, K086, K100, K176	5.0 mg/L regulatory level	
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**14. TRANSPORT INFORMATION**

**DOT**

**TDG  
IATA**

**IMDG/IMO**

RQ, UN3077, Environmentally Hazardous Substance, Solid, n.o.s. (Lead), Class 9, PGIII.  
 RQ, UN3077, Environmentally Hazardous Substance, Solid, n.o.s. (Lead), Class 9, PGIII.  
 For Open Format Air Document: RQ, UN3077, Environmentally Hazardous Substance, Solid, n.o.s. (Lead), Class 9, PGIII. For the Columnar Format of an Air Document: RQ, 3077, Environmentally Hazardous Substance, Solid, n.o.s. (Lead), Class 9, PGIII.  
 RQ, UN3077 Environmentally Hazardous Substance, Solid, n.o.s. (Lead), Class 9, PGIII

**15. REGULATORY INFORMATION**

**International Inventories**

Component	TSCA	DSL	NDSL	EINECS/EL INCS	ENCS	CHINA	KECL	PICCS	AICS
Lubricating greases				278-011-7		X		X	
Lead	Present	X		231-100-4	X	X		X	X
Carbon Black	Present	X		435-640-3	X	X		X	X

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	SARA 313 - Threshold Values
Lead	0.1

**SARA 311/312 Hazardous Categorization**

Chronic Health Hazard Yes  
 Acute Health Hazard Yes  
 Fire Hazard No  
 Sudden Release of Pressure Hazard No  
 Reactive Hazard No

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Lead		X	X	

**CERCLA**

Component	Hazardous Substances RQs	CERCLA EHS RQs
Lead	10	

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals

Component	California Prop. 65
Lead	Carcinogen
Carbon Black	Carcinogen

**State Right-to-Know**

**Other International Regulations**

Mexico - Grade  
Canada

No information available

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

**WHMIS Hazard Class**

D2A Very toxic materials



## 16. OTHER INFORMATION

**Preparation Date** January 2011  
**Revision Date** 7-November-2011  
**Revision Number** 1  
**Revision Summary**

Format change; Transportation information update; Update in Section 9. Physical and Chemical Properties

### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and **WE MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION HEREIN.** Accordingly, we will not be responsible for damages resulting from use or reliance upon information contained herein regardless of whether it is claimed that the information is inaccurate, incomplete, or otherwise misleading. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**