



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 October 2005

Revision Date 13-February-2012

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description: White Collar
MSDS #: 0070 301G
Recommended Use For industrial use only

Manufacturer Bestolife Corporation
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 Dallas, Texas 75207
 USA
 E-mail: sales@bestolife.com
 Internet: www.bestolife.com

Telephone Number (214) 631-6070

Emergency Telephone Number CHEMTREC: 800-424-9300
 (Transportation Emergencies; 24-hours/day)

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Light gray	May cause skin irritation and/or dermatitis	Physical State Semisolid, grease.	Odor Oil/grease 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

If the grease base has been removed, i.e., by volatile solvents, heat, etc., the remaining powders and metallics can pose an inhalation hazard resulting in both acute and chronic overexposure as well as lung irritation, lung injury, or other health effects.

Ingestion

This product may be absorbed by the digestive system. Ingestion can result in both acute and chronic overexposure.

Chronic Effects

If left untreated, large oral doses may cause weakness, loss of appetite, insomnia, hypertension, metallic taste in mouth, anemia, constipation, headache, muscle and joint pains, neuromuscular dysfunction, possible paralysis and encephalopathy; 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 Chronic forms of kidney, liver, and hematopoietic diseases; preexisting respiratory and cardiovascular disorders may be aggravated by ingestion or inhalation of large doses. Preexisting eye or skin disorders may be aggravated by prolonged contact with this product.

Potential Environmental Effects See Section 12 for additional Ecological information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Petroleum Grease Mixture (CAS# 64742-52-5, 64754-95-6, 66071-82-7, 64741-95-3, Mixture)	64742-52-5	40-70
Zinc oxide	1314-13-2	20-30
Lead	7439-92-1	0-1

Other Non-Hazardous Ingredients

4. FIRST AID MEASURES

Eye Contact Flush with copious amounts of water. Get immediate medical attention.

Skin Contact Wash thoroughly with soap and water. If irritation occurs, get medical attention.

Inhalation Remove from exposure. Get medical attention if experiencing cough, irritation or difficult breathing.

Ingestion Get immediate medical attention. DO NOT INDUCE VOMITING! Possible aspiration hazard.

Notes to Physician 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. Prolonged or repeated skin contact, especially with poor personal hygiene, may cause skin disorders. 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). For combustion product effects see Hazardous Combustion Products in Section 5. Fire Fighting Measures.

Protection of First-aiders Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flammable Properties No information available

Suitable Extinguishing Media Dry chemical, water fog, foam, or carbon dioxide may be suitable for extinguishing fires involving this product. Do not spray water directly on burning material. Observe caution when using water or foam as frothing may occur.

Unsuitable extinguishing media. No information available

Explosion Limits

Hazardous Combustion Products

Combustion products are highly dependent on the combustion conditions. CO, CO₂, CaO, 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 headache; dizziness; coma; convulsion; weakness; drowsiness; tachypnea; nausea; paresthesias; dyspnea; asphyxiation; mild to severe eye, skin or respiratory tract irritation; metal fume fever; cough; pneumonia; pneumoconiosis; ulceration or perforation of the nasal septum; polymer fume fever; cumulative bone damage; excessive salivation; thirst; sweating; stiff spine; calcification of ligaments of ribs and pelvis and/or lung damage, Other unidentified health effects may occur.

Impact Sensitivity
Sensitivity to static discharge
Specific Hazards Arising from the Chemical
Protective Equipment and Precautions for Firefighters

Not applicable.
Not applicable.
No information available.

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. KEEP OUT OF REACH OF CHILDREN. 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)
Zinc oxide	TWA: 2 mg/m ³ STEL: 10 mg/m ³	5 15	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³ TWA: 10 mg/m ³ STEL: 10 mg/m ³
Lead	TWA: 0.05 mg/m ³	50	TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³

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. Clothing appropriate for an industrial environment should be worn. Oil-resistant gloves should be worn when handling this product.

Skin Protection

Respiratory Protection

No respiratory equipment is required for normal use.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light gray	Odor	Oil/grease odor
Odor Threshold	No information available	Physical State	Semisolid, grease
pH	No information available	Flash Point	196 °C / 385 °F
Autoignition Temperature	No information available	Boiling Point/Range	288 °C / 550 °F
Melting Point	No information available	Dropping Point	160-177 °C / 320-350 °F
Flammability Limits in Air	No information available	Vapour Density	>1
Vapour Pressure	No information available	Vapour Pressure	Not available
Specific Gravity	1.4	Solubility	Negligible
Partition Coefficient (n-octanol/water)	No information available	Viscosity	No information available
VOC Content(%)	Not available	Evaporation Rate	Less than 1
Freezing Point	No information available		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Not applicable.
Incompatible Products	Strong oxidizers or acids combined with this product may liberate hydrogen gas
Hazardous Decomposition Products	Under normal temperatures this product will not decompose.
Possibility of Hazardous Reactions	Not applicable

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	
Product Information	No information available

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum Grease Mixture (CAS# 64742-52-5, 64754-95-6, 66071-82-7, 64741-95-3, Mixture)	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	2.18 mg/L (Rat) 4 h
Zinc oxide	5000 mg/kg (Rat)		

Irritation	No information available
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Chronic Toxicity

Component	ACGIH	IARC	NTP	OSHA	Mexico
Zinc oxide	STEL: 10 mg/m ³ TWA: 2 mg/m ³				
Lead	TWA: 0.05 mg/m ³	Group 2A	Reasonably Anticipated To Be A Human Carcinogen	X	A3

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Petroleum Grease Mixture (CAS# 64742-52-5, 64754-95-6, 66071-82-7, 64741-95-3, Mixture)		LC50> 5000 mg/L Oncorhynchus mykiss 96 h		EC50 > 1000 mg/L 48 h
Zinc oxide	EC50 = 30 µg/L 96 h			
Lead		LC50= 0.44 mg/L Cyprinus carpio 96 h LC50= 1.17 mg/L Oncorhynchus mykiss 96 h LC50= 1.32 mg/L Oncorhynchus mykiss 96 h		EC50 = 600 µg/L 48 h

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of 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. Product may exhibit D008 when tested for lead by the Toxicity Characteristic Leaching Procedure.

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	

14. TRANSPORT INFORMATION

DOT

This product is not considered to be a Hazardous Material for shipping under U.S. DOT regulations.

TDG

Not Regulated

IATA

Not Regulated

IMDG/IMO

Not Regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS/EL INCS	ENCS	CHINA	KECL	PICCS	AICS
Petroleum Grease Mixture (CAS# 64742-52-5, 64754-95-6, 66071-82-7, 64741-95-3, Mixture)	Present	X		265-155-0	X	X		X	X
Zinc oxide	Present	X		215-222-5	X	X		X	X
Lead	Present	X		231-100-4	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
Zinc oxide	1.0
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
Zinc oxide		X		
Lead		X	X	

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Zinc oxide	1000	
Lead	10	

U.S. State Regulations

California Proposition 65

This product may contain lead, which is known by the State of California to cause cancer, birth defects or other reproductive harm. Exposure to this product may be prevented by following the recommendations throughout this MSDS.

Component	California Prop. 65
Lead	Carcinogen

State Right-to-Know

Other International Regulations

Mexico - Grade No information available

Canada

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

Non-controlled

16. OTHER INFORMATION

Preparation Date October 2005
Revision Date 13-February-2012
Revision Number 1
Revision Summary
Format change.

Disclaimer

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End of MSDS