

WHITMORE'S

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY					
Product Name:	SurStik™ 800 Arctic	Manufacturer/Supplier:		The Whitmore Manufacturing Company	
Chemical Family:	Petroleum Hydrocarbon	930 Whitmore Drive		Rockwall, Texas 75087, U.S.A.	
Use:	Open Gear Lubricant for Draglines & Shovels	800-424-9300 (24 hrs)		703-527-3887 (Collect - 24 hr)	
Emergency Tel. No.:	CHEMTREC U.S.A. & Canada	International		Australia	
II. COMPOSITION INFORMATION ON INGREDIENTS					
Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Petroleum Hydrocarbon	64742-94-5	9-10	Unknown	100 mg/m ³	Unknown
III. ADVERSE HUMAN HEALTH EFFECTS					
Eyes:	Any eye contact will cause irritation.				
Skin:	Prolonged skin contact may cause irritation.				
Inhalation:	Not Applicable				
Ingestion:	May cause cathartic effects.				
IV. FIRST AID MEASURES					
Eyes:	S-26 Flush with large amounts of cold water. If irritation persists, SEEK MEDICAL ATTENTION.				
Skin:	Thoroughly wash exposed area with soap and water.				
Inhalation:	N/A				
Ingestion:	Wash mouth out with water and attain medical attention. Do not induce vomiting.				
V. FIRE FIGHTING MEASURES					
Extinguishing Media:	Foam, Dry Chemical, Carbon Dioxide				
Unsuitable Extinguishing Media:	None known.				
Fire Fighting Protective Equipment:	If product is overheated, use organic NIOSHA/MSHA filter-type respirator.				
VI. ACCIDENTAL RELEASE MEASURES					
Personal Precautions:	Wear plastic or neoprene rubber gloves and safety goggles.				
Environmental Precautions:	Check state regulatory requirements.				
Spillage:	Absorb with dry, inert material and shovel up.				
VII. HANDLING AND STORAGE					
Handling:	Keep away from open flame or sparks.				
Storage:	Keep away from open flame or sparks.				
VIII. EXPOSURE CONTROL/PERSONAL PROTECTION					
Respiratory Protection:	None				
Hand Protection:	S37 PVC, Neoprene, or Nitrile rubber gloves.				
Eye Protection:	Safety Goggles				
Body Protection:	None				

HMS SYMBOLS

	1
	1
Reactivity	0
PPI	B

MSDS-486

Effective Date: 5-31-06

Revised Date: 9-22-09

IX. PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Paste	Color:	Black
Boiling Range/point, °F (°C):	361 - 396 (183 - 202)	Melting Point, °F (°C):	N/A
Flash Point (COC), °F (°C):	[>142 (>61) (Base Oils) with Solvent]	Autoignition Temperature, °F (°C):	>800 (>427)
Explosive Properties:	LEL: 1.8 UEL: 11.7	Evaporation Rate (Butyl Acetate):	<1
Partition Coefficient (Log Pow):	N/A	Vapor Pressure (mmHg):	0.62 @ 68°F (20°C)
Density:	8.60 - 8.70	Flammability:	N/A
Oxidizing Properties:	None	Solubilities in Water:	Nil
Vapor Density:	4.60	% Volatiles:	9 - 10
X. STABILITY AND REACTIVITY			
Stability:	Chemically stable under normal conditions.		
Conditions to Avoid:	None known.		
Materials to Avoid:	Strong oxidizing agents.		
Decomposition Products:	Oxides of carbon sulfur, phosphorus, and hydrocarbons.		
XI. TOXICOLOGICAL INFORMATION			
Acute Toxicity:	Oral & Dermal LD-50 expected to be above 2000 mg/kg	Skin Irritancy:	Expected to be irritant.
Chronic Toxicity:	None	Skin Sensitization:	Expected to be irritant.
Sub-acute/Subchronic Toxicity:	Not Known	Genotoxicity:	Not Known
California Prop 65:	N/A	EC Classification (67/548/EEC):	R36/38
Carcinogenicity:	NTP: No	IARC: N/A	OSHA: No
LC-50:	Not Available	LD-50:	Expected to be above 2000 mg/kg, oral & dermal.
XII. ECOLOGICAL INFORMATION			
Possible Effects:	None known.		
Behavior:	Relatively well behaved. Bioaccumulation potential nil.		
Environmental Fate:	Not thought to be toxic to marine or land organisms.		
XIII. WASTE DISPOSAL			
Product Disposal:	Contact waste disposal company or local authority for advice.		
Container Disposal:	Check state regulatory requirements.		
XIV. TRANSPORT INFORMATION			
DOT:	Not Regulated	UN No.:	Not Regulated
Air Transport (ICAO/IATA):	Not Regulated		
Sea Transport (IMO/IMDG):	Not Regulated		
Road and Rail Transport (ADR/RID):	Not Regulated		
XV. REGULATORY INFORMATION			
Labeling Information:	N/A	EC Annex 1 Classification:	R36/38
R Phrases:	R36/38 Irritating to eyes and skin.		
S Phrases:	S2, S24/25 Keep out of the reach of children. Avoid contact with skin and eyes.		
Ozone Depleting Chemicals:	None/Nil	TSCA:	All components listed.
WHMIS (Canada):	N/A		
EPA Regulation 40 CFR Part 372 (SARA Section 313):	None		
XVI. OTHER INFORMATION			
None			

WHITMORE'S

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY			
Product Name:	SurStik™ 800 (Extra Heavy)	Manufacturer/Supplier:	The Whitmore Manufacturing Company
Chemical Family:	Petroleum Hydrocarbon		930 Whitmore Drive
Use:	Open Gear Lubricant		Rockwall, Texas 75087, U.S.A.
Emergency Tel. No.:	CHEMTREC	U.S.A. & Canada	800-424-9300 (24 hrs)
		International	703-527-3887 (Collect - 24 hr)
		Australia	00-111-703-527-3887 (Collect - 24 hr)

II. COMPOSITION INFORMATION ON INGREDIENTS					
<u>Hazardous Components</u>	<u>CAS No.</u>	<u>Wt%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits of Exposure</u>
None					

III. ADVERSE HUMAN HEALTH EFFECTS	
Eyes:	Any eye contact will cause irritation.
Skin:	Prolonged skin contact will cause irritation.
Inhalation:	Breathing fumes in confined areas at elevated temperatures will cause lung irritation.
Ingestion:	Harmful if swallowed.

IV. FIRST AID MEASURES	
Eyes:	Flush with large amounts of cold water. If irritation persists, SEEK MEDICAL ATTENTION.
Skin:	Thoroughly wash exposed area with soap and water.
Inhalation:	Provide fresh air source. If irritation persists, SEEK MEDICAL ATTENTION.
Ingestion:	Do not induce vomiting. SEEK MEDICAL ATTENTION.

V. FIRE FIGHTING MEASURES	
Extinguishing Media:	Foam, CO ₂ , Dry Chemical
Unsuitable Extinguishing Media:	Not Known
Fire Fighting Protective Equipment:	Treat as an oil fire.

VI. ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Wear plastic or neoprene rubber gloves.
Environmental Precautions:	Do not allow it to enter drains.
Spillage:	Absorb with dry inert material and shovel up.

VII. HANDLING AND STORAGE	
Handling:	Keep away from open flame and sparks.
Storage:	Store in metal containers until disposal.

VIII. EXPOSURE CONTROL/PERSONAL PROTECTION	
Respiratory Protection:	If product is overheated, use organic NIOSH/MSHA filter-type respirator.
Hand Protection:	Plastic or Neoprene Rubber
Eye Protection:	Safety Goggles.
Body Protection:	None

HMS SYMBOLS

	1
	1
Reactivity	0
PPI	B

MSDS-567

Effective Date: 6-16-09

Revised Date: 6-16-09

IX. PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Paste	Color:	Dark Gray
Boiling Range/point, °F (°C):	N/A	Melting Point, °F (°C):	>240 (>116)
Flash Point (COC), °F (°C):	[>400 (>204) (Base Oils)]	Autoignition Temperature, °F (°C):	Not Known
Explosive Properties:	LEL: N/A	UEL: N/A	Evaporation Rate (Butyl Acetate): N/A
Partition Coefficient (Log Pow):	N/A	Vapor Pressure (kPa):	Nil
Density:	8.58	Flammability:	Not Known
Oxidizing Properties:	Nil	Solubilities in Water:	Nil
		Vapor Density:	N/A
		% Volatiles:	Nil

X. STABILITY AND REACTIVITY	
Stability:	Chemically stable under normal conditions.
Conditions to Avoid:	Direct flame.
Materials to Avoid:	Strong inorganic and organic acids and oxidizing agents.
Decomposition Products:	Oxides of carbon, nitrogen, molybdenum, phosphorus, and hydrocarbons.

XI. TOXICOLOGICAL INFORMATION			
Acute Toxicity:	Not Known	Skin Irritancy:	Very Mild
Chronic Toxicity:	Not Known	Skin Sensitization:	Not Known
Sub-acute/Subchronic Toxicity:	Not Known	Genotoxicity:	Not Known
California Prop 65:	Not Available	EC Classification (67/548/EEC):	No
Carcinogenicity:	NTP: No	IARC:	No
LC-50:	Not Available	OSHA:	No
		LD-50:	Not Available

XII. ECOLOGICAL INFORMATION	
Possible Effects:	Unknown
Behavior:	Relatively well behaved. Bioaccumulation potential nil.
Environmental Fate:	Not thought to be toxic to marine or land organisms.

XIII. WASTE DISPOSAL	
Product Disposal:	Observe all local, state & federal regulations concerning disposal of lubricating grease.
Container Disposal:	Observe all local, state & federal regulations concerning disposal of lubricating grease.

XIV. TRANSPORT INFORMATION			
DOT:	Not Regulated	UN No.:	Not Regulated
Air Transport (ICAO/IATA):	Not Regulated		
Sea Transport (IMO/IMDG):	Not Regulated		
Road and Rail Transport (ADR/RID):	Not Regulated		

XV. REGULATORY INFORMATION			
Labeling Information:	N/A	EC Annex 1 Classification:	N/A
R Phrases:	N/A		
S Phrases:	S2 Keep away from children.		
Ozone Depleting Chemicals:	None/Nil	TSCA:	All Components are listed.
WHMIS (Canada):	Not Regulated		
EPA Regulation 40 CFR Part 372 (SARA Section 313):	None		

XVI. OTHER INFORMATION	
None	

WHITMORE'S

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY			
Product Name:	SurStik™ 800 (Heavy)	Manufacturer/Supplier:	
Chemical Family:	Petroleum Hydrocarbon	The Whitmore Manufacturing Company	
Use:	Open Gear Lubricant	930 Whitmore Drive Rockwall, Texas 75087, U.S.A.	
Emergency Tel. No.:	CHEMTREC	U.S.A. & Canada	800-424-9300 (24 hrs)
		International	703-527-3887 (Collect - 24 hr)
		Australia	00-111-703-527-3887 (Collect - 24 hr)

II. COMPOSITION INFORMATION ON INGREDIENTS					
<u>Hazardous Components</u>	<u>CAS No.</u>	<u>Wt%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits of Exposure</u>
None					

III. ADVERSE HUMAN HEALTH EFFECTS	
Eyes:	Any eye contact will cause irritation.
Skin:	Prolonged skin contact will cause irritation.
Inhalation:	Breathing fumes in confined areas at elevated temperatures will cause lung irritation.
Ingestion:	Harmful if swallowed.

IV. FIRST AID MEASURES	
Eyes:	Flush with large amounts of cold water. If irritation persists, SEEK MEDICAL ATTENTION.
Skin:	Thoroughly wash exposed area with soap and water.
Inhalation:	Provide fresh air source. If irritation persists, SEEK MEDICAL ATTENTION.
Ingestion:	Do not induce vomiting. SEEK MEDICAL ATTENTION.

V. FIRE FIGHTING MEASURES	
Extinguishing Media:	Foam, CO ₂ , Dry Chemical
Unsuitable Extinguishing Media:	Not Known
Fire Fighting Protective Equipment:	Treat as an oil fire.

VI. ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Wear plastic or neoprene rubber gloves.
Environmental Precautions:	Do not allow it to enter drains.
Spillage:	Absorb with dry inert material and shovel up.

VII. HANDLING AND STORAGE	
Handling:	Keep away from open flame and sparks.
Storage:	Store in metal containers until disposal.

VIII. EXPOSURE CONTROL/PERSONAL PROTECTION	
Respiratory Protection:	If product is overheated, use organic NIOSH/MSHA filter-type respirator.
Hand Protection:	Plastic or Neoprene Rubber
Eye Protection:	Safety Goggles.
Body Protection:	None

HMS SYMBOLS

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Reactivity	0
PPI	B

MSDS-485

Effective Date: 5-31-06

Revised Date: 9-22-09

IX. PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Paste	Color:	Dark Gray
Boiling Range/point, °F (°C):	N/A	Melting Point, °F (°C):	>240 (>116)
Flash Point (COC), °F (°C):	[>400 (>204) (Base Oils)]	Autoignition Temperature, °F (°C):	Not Known
Explosive Properties:	LEL: N/A UEL: N/A	Evaporation Rate (Butyl Acetate):	N/A
Partition Coefficient (Log Pow):	N/A	Vapor Pressure (kPa):	Nil
Density:	8.70 - 8.80	Flammability:	Not Known
Oxidizing Properties:	Nil	Solubilities in Water:	Nil
		Vapor Density:	N/A
		% Volatiles:	Nil

X. STABILITY AND REACTIVITY	
Stability:	Chemically stable under normal conditions.
Conditions to Avoid:	Direct flame.
Materials to Avoid:	Strong inorganic and organic acids and oxidizing agents.
Decomposition Products:	Oxides of carbon, nitrogen, molybdenum, phosphorus, and hydrocarbons.

XI. TOXICOLOGICAL INFORMATION			
Acute Toxicity:	Not Known	Skin Irritancy:	Very Mild
Chronic Toxicity:	Not Known	Skin Sensitization:	Not Known
Sub-acute/Subchronic Toxicity:	Not Known	Genotoxicity:	Not Known
California Prop 65:	Not Available	EC Classification (67/548/EEC):	No
Carcinogenicity:	NTP: No	IARC:	No
LC-50:	Not Available	OSHA:	No
		LD-50:	Not Available

XII. ECOLOGICAL INFORMATION	
Possible Effects:	Unknown
Behavior:	Relatively well behaved. Bioaccumulation potential nil.
Environmental Fate:	Not thought to be toxic to marine or land organisms.

XIII. WASTE DISPOSAL	
Product Disposal:	Observe all local, state & federal regulations concerning disposal of lubricating grease.
Container Disposal:	Observe all local, state & federal regulations concerning disposal of lubricating grease.

XIV. TRANSPORT INFORMATION	
DOT:	Not Regulated
UN No.:	Not Regulated
Air Transport (ICAO/IATA):	Not Regulated
Sea Transport (IMO/IMDG):	Not Regulated
Road and Rail Transport (ADR/RID):	Not Regulated

XV. REGULATORY INFORMATION	
Labeling Information:	N/A
EC Annex 1 Classification:	N/A
R Phrases:	N/A
S Phrases:	S2 Keep away from children.
Ozone Depleting Chemicals:	None/Nil
TSCA:	All Components are listed.
WHMIS (Canada):	Not Regulated
EPA Regulation 40 CFR Part 372 (SARA Section 313):	None

XVI. OTHER INFORMATION	
None	

WHITMORE'S

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY					
Product Name:	SurStik™ 800 (Medium)	Manufacturer/Supplier:			
Chemical Family:	Petroleum Hydrocarbon	The Whitmore Manufacturing Company			
Use:	Open Gear Lubricant	930 Whitmore Drive Rockwall, Texas 75087, U.S.A.			
Emergency Tel. No.:	CHEMTREC	U.S.A. & Canada	800-424-9300 (24 hrs)		
		International	703-527-3887 (Collect - 24 hr)		
		Australia	00-111-703-527-3887 (Collect - 24 hr)		
II. COMPOSITION INFORMATION ON INGREDIENTS					
<u>Hazardous Components</u>	<u>CAS No.</u>	<u>Wt%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits of Exposure</u>
None					
III. ADVERSE HUMAN HEALTH EFFECTS					
Eyes:	Any eye contact will cause irritation.				
Skin:	Prolonged skin contact will cause irritation.				
Inhalation:	Breathing fumes in confined areas at elevated temperatures will cause lung irritation.				
Ingestion:	Harmful if swallowed.				
IV. FIRST AID MEASURES					
Eyes:	Flush with large amounts of cold water. If irritation persists, SEEK MEDICAL ATTENTION.				
Skin:	Thoroughly wash exposed area with soap and water.				
Inhalation:	Provide fresh air source. If irritation persists, SEEK MEDICAL ATTENTION.				
Ingestion:	Do not induce vomiting. SEEK MEDICAL ATTENTION.				
V. FIRE FIGHTING MEASURES					
Extinguishing Media:	Foam, CO ₂ , Dry Chemical				
Unsuitable Extinguishing Media:	Not Known				
Fire Fighting Protective Equipment:	Treat as an oil fire.				
VI. ACCIDENTAL RELEASE MEASURES					
Personal Precautions:	Wear plastic or neoprene rubber gloves.				
Environmental Precautions:	Do not allow it to enter drains.				
Spillage:	Absorb with dry inert material and shovel up.				
VII. HANDLING AND STORAGE					
Handling:	Keep away from open flame and sparks.				
Storage:	Store in metal containers until disposal.				
VIII. EXPOSURE CONTROL/PERSONAL PROTECTION					
Respiratory Protection:	If product is overheated, use organic NIOSH/MSHA filter-type respirator.				
Hand Protection:	Plastic or Neoprene Rubber				
Eye Protection:	Safety Goggles.				
Body Protection:	None				

HMS SYMBOLS

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	1
Reactivity	0
PPI	B

MSDS-491

Effective Date: 8-17-06

Revised Date: 9-22-09

IX. PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Paste	Color:	Dark Gray
Boiling Range/point, °F (°C):	N/A	Melting Point, °F (°C):	>240 (>116)
Flash Point (COC), °F (°C):	295° (146°)	Autoignition Temperature, °F (°C):	Not Known
(Typical Finished Product With Solvent)			
Explosive Properties:	LEL: N/A UEL: N/A	Evaporation Rate (Butyl Acetate):	N/A
Partition Coefficient (Log Pow):	N/A	Vapor Pressure (kPa):	Nil
Density:	8.70 - 8.80	Flammability:	Not Known
Oxidizing Properties:	Nil	Solubilities in Water:	Nil
		Vapor Density:	N/A
		% Volatiles:	4.0 - 5.0
X. STABILITY AND REACTIVITY			
Stability:	Chemically stable under normal conditions.		
Conditions to Avoid:	Direct flame.		
Materials to Avoid:	Strong inorganic and organic acids and oxidizing agents.		
Decomposition Products:	Oxides of carbon, nitrogen, molybdenum, phosphorus, and hydrocarbons.		
XI. TOXICOLOGICAL INFORMATION			
Acute Toxicity:	Not Known	Skin Irritancy:	Very Mild
Chronic Toxicity:	Not Known	Skin Sensitization:	Not Known
Sub-acute/Subchronic Toxicity:	Not Known	Genotoxicity:	Not Known
California Prop 65:	Not Available	EC Classification (67/548/EEC):	No
Carcinogenicity:	NTP: No	IARC:	No
LC-50:	Not Available	OSHA:	No
		LD-50:	Not Available
XII. ECOLOGICAL INFORMATION			
Possible Effects:	Unknown		
Behavior:	Relatively well behaved. Bioaccumulation potential nil.		
Environmental Fate:	Not thought to be toxic to marine or land organisms.		
XIII. WASTE DISPOSAL			
Product Disposal:	Observe all local, state & federal regulations concerning disposal of lubricating grease.		
Container Disposal:	Observe all local, state & federal regulations concerning disposal of lubricating grease.		
XIV. TRANSPORT INFORMATION			
DOT:	Not Regulated	UN No.:	Not Regulated
Air Transport (ICAO/IATA):	Not Regulated		
Sea Transport (IMO/IMDG):	Not Regulated		
Road and Rail Transport (ADR/RID):	Not Regulated		
XV. REGULATORY INFORMATION			
Labeling Information:	N/A	EC Annex 1 Classification:	N/A
R Phrases:	N/A		
S Phrases:	S2 Keep away from children.		
Ozone Depleting Chemicals:	None/Nil	TSCA:	All Components are listed.
WHMIS (Canada):	Not Regulated		
EPA Regulation 40 CFR Part 372 (SARA Section 313):	None		
XVI. OTHER INFORMATION			
None			