



Hollister-Whitney Elevator Corporation

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Gearbox Cleanout Procedure

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Sludgy Oil

Attached please find the MSDS sheets and Instructions (Product Data Sheet) for the Summit Wind Turbine Cleaner (Varnish and Sludge Gearbox Cleaner).

Read the Clean-Out Procedure Instructions on the Product Data Sheet before proceeding.

Deviate from the Instructions in the following way: Do Not Drain Down the Oil Level to add the Cleaner.

Add Cleaner per the Chart Below.

Machine Size	Gear Box Volume		Add Cleaner Volume	
	<u>(gallon)</u>	<u>(liter)</u>	<u>(pints)</u>	<u>(ml)</u>
34	3/4	2.85	3/4	290
43/44	1	3.79	1	380
53/54	1 1/2	5.68	1 1/4	570
63/64	2	7.57	1 3/4	760
74	4	15.14	3 1/4	1520

Then, per the Clean-Out Procedure Instructions Run the Elevator Machine for at least 48 hours. The goal is to get the oil hot so that it will properly drain.

Drain the oil while hot and replace with fresh oil per the Hollister-Whitney Lubrication Instructions Procedure. If Hot Oil will not drain, refer to the chart above and add a second application of the cleaner to the Gearbox, and Run the Elevator Machine for another 24 hours. If Hot Oil will not drain at this point, contact Hollister-Whitney for assistance.

The Hollister-Whitney Lubrication Instructions Procedure, **Bulletin #1150**, is found at <http://www.hollisterwhitney.com/techsupport/Bulletins/> .

Getting Oil and/or Gearbox Cleaner from H-W

- 1) Machines must be checked by Qualified Mechanic.
- 2) Change oil at the normal recommended time. Procedure for this is **Bulletin #1150**, found at <http://www.hollisterwhitney.com/techsupport/Bulletins/>
- 3) If oil is coagulated, sludgy, etc.
 - a) Get Contract Serial # (A#) from machine data tag and contact H-W.
 - b) With the Contract Serial #, Contact H-W Sales (sales@hwec.com) for New Oil and/or Gearbox Cleaner.
 - c) **Customer Issues PO in writing to H-W Sales** for new oil, cleaner, etc. Customer must reference Contract Serial #.
 - d) New Oil, Cleaner, etc. is sent to the customer.

Concerning Mobil SHC 636

Hollister-Whitney now recommends the use of Mobil SHC 636 (described below). It is fully compatible with the mineral based EP 8, ISO Grade 680 gear oils used in the past.

Hollister-Whitney has used the Mobil Synthetic SHC636 for the better part of 25 years. In the past it was always delegated to those jobs that were of "higher" capacity, or had "inefficient" gearing... and would be shipped in the machine from Hollister-Whitney if that determination had been made at the time of Machine Assembly.

The "standard" oil used at Hollister-Whitney used to be a mineral based "normal" 680 viscosity gear oil. Many applications of this oil were successfully converted to SHC 636 after the fact in the field simply by the customer draining the old 680 oil out and replacing it with the SHC 636.

Hollister-Whitney no longer recommends any normal mineral based 680 gear oils.

The SHC 636 is NON-GLYCOL based, and is fully compatible with the normal mineral based 680 gear oils.

July 21, 2010

P.O. Box 131359 • Tyler, Texas 75713, Phone 903.534.8021 • Fax 903.581.4376

Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current as of July 21, 2010.

LUBRICANT ADDITIVE

Wind Turbine Cleaner

Varnish and Sludge Cleaner

Wind turbine gearbox lubricants perform in difficult environments. Shock loading, extended oil drain service intervals, temperature and humidity extremes can rapidly break down the best formulated lubricants, producing varnish and sludge as natural decomposition by-products. Summit's **Wind Turbine Cleaner** is the most effective lubricating system conditioner available to clean and remove these performance robbing deposits.

Clean-Out Procedure:

Simply replace 10% of the existing oil charge with an equal amount of Summit **Wind Turbine Cleaner**, and then operate normally for a minimum of 48 hours. As the warm oil is drained from the gearbox reservoir, the varnish, sludge, and carbonaceous gunk in suspension will be removed. If installed, check oil filters and change after the cleaning procedure. A thorough periodic cleaning of the gearbox lubricating system before a scheduled oil change ensures peak lubricant performance and restores the system to like-new condition.

Summit's **Wind Turbine Cleaner** is compatible with all commonly used lubricants, mineral or synthetic; and, all common elastomers, paints and plastics. Please consult your Summit representative for more information.

PHYSICAL PROPERTIES

Viscosity, 40°C, cSt	78
Specific Gravity, 60°F	0.985
Density, 60°F	8.20 lbs/gal
Flash Point	193°C / 380°F



MATERIAL SAFETY DATA SHEET

Print date: 26-Aug-2010

Revision Number: 0

Revision date:

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: Wind Turbine Cleaner
Article Code: 340281
Synonyms: No information available
Chemical characterisation: No data is available on the product itself.

Supplier:
Summit Industrial Products
9010 County Road 2120
Tyler, Texas 75707
Phone: (903) 534-8021
Fax: (903) 581-4376

Emergency telephone number CHEMTREC: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	ACGIH (TWA mg/m ³):	OSHA (TWA mg/m ³):
Glycols, polyethylene, mono(1,1,3,3-tetramethyl)phenyl] ether	9036-19-5	None	None

3. HAZARDS IDENTIFICATION

Properties affecting health: Harmful by inhalation
Harmful in contact with skin

Principle routes of exposure: Skin.

Skin contact: Contact causes skin irritation.

Eye contact: Contact with eyes may cause irritation.

Inhalation: May cause irritation of respiratory tract.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea Risk of product entering the lungs on vomiting after ingestion

4. FIRST AID MEASURES

General advice: If symptoms persist, call a physician.

Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.

Ingestion: Drink 1 or 2 glasses of water. Do not induce vomiting. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Carbon dioxide (CO₂), Dry chemical, Water spray mist or foam

Extinguishing media which must not be used for safety reasons:
No information available..

Special protective equipment for firefighters:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific hazards: No information available.
Unusual hazards: No hazards resulting from the material as supplied
Specific methods: In the event of fire, cool tanks with water spray

Flash point: >335 (°F)
Method: Cleveland Open Cup
Autoignition temperature: No information available

Flammability Limits in Air:
Lower No information available
Upper No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Use only in area provided with appropriate exhaust ventilation
Safe handling advice: Spilling onto the container's outside will make container slippery.

Storage

Technical measures/storage conditions: Keep containers dry and tightly closed to avoid moisture absorption and contamination.
Incompatible products: No special restrictions on storage with other products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Nitrile rubber.

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Eye protection: Safety glasses

Hygiene measures: Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Liquid
Color:	Clear	Odor:	Mild
Specific gravity:	<1.0	Boiling point/range	>500 (°F)
Evaporation rate:	Not determined	Vapor density:	Not determined
Vapor pressure:	< 0.035 mm Hg @ 300 °F	Solubility:	Insoluble.

10. STABILITY AND REACTIVITY

Stability:	Stable
Polymerization:	Hazardous polymerisation does not occur.
Hazardous decomposition products:	Carbon oxides
Materials to avoid:	Oxidising agents (strong).
Conditions to avoid:	Stable at normal conditions

11. TOXICOLOGICAL INFORMATION

Acute toxicity No data available

12. ECOLOGICAL INFORMATION

Mobility: No information available.

Bioaccumulative potential: No information available.

Ecotoxicity effects: No data available.

Aquatic toxicity: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: In accordance with local and national regulations.

Contaminated packaging: Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT
Proper shipping name: Not Applicable

TDG (Canada)
Proper shipping name: Not Applicable

IMO / IMDG

14. TRANSPORT INFORMATION

Proper shipping name: Not Applicable

ICAO

Proper shipping name: Not Applicable

IATA

Proper shipping name: Not Applicable

15. REGULATORY INFORMATION

International Inventories

PICCS: This product complies with phil:

TSCA: Listed in TSCA

DSL: All of the components in this product are listed in DSL

ENCS: This product does not comply with JPENCS

CHINA: This product complies with china:

AICS: All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

KECL: This product complies with korea:

EINECS/ELINCS This product complies with EINECS/ELINCS

U.S. Regulations:

Sara (311, 312) hazard class:

Canada

WHMIS hazard class:

D2B Toxic materials

WHMIS graphic:



16. OTHER INFORMATION

NFPA Health: 1 Flammability: 1 Instability: 0

HMIS Health: 1 Flammability: 1 Physical Hazard: 0

NFPA symbol:



Reason for revision:

Not applicable

Prepared by:

Health & Safety

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MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: MOBIL SHC 636
Product Description: Synthetic Base Stocks and Additives
Product Code: 201560500580, 602995-00, 970921
Intended Use: Circulating/gear oil

COMPANY IDENTIFICATION

Supplier: EXXON MOBIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA. 22037 USA

24 Hour Health Emergency 609-737-4411
Transportation Emergency Phone 800-424-9300
ExxonMobil Transportation No. 281-834-3296
Product Technical Information 800-662-4525, 800-947-9147
MSDS Internet Address <http://www.exxon.com>, <http://www.mobil.com>

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 3 HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID:	Health: 0	Flammability: 1	Reactivity: 0
HMIS Hazard ID:	Health: 0	Flammability: 1	Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use

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adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Smoke, Fume, Aldehydes, Sulfur oxides, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES

Flash Point [Method]: >210°C (410°F) [ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0

Autoignition Temperature: N/D

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

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PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7

HANDLING AND STORAGE

HANDLING

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator.

STORAGE

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabelled containers.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product: When mists/aerosols can occur the following are recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction), 5 mg/m³ - OSHA PEL.

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NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only

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and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State: Liquid
Color: Orange
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density: 0.867
Flash Point [Method]: >210°C (410°F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: > 316°C (600°F)
Vapor Density (Air = 1): > 2 at 101 kPa
Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): > 3.5
Solubility in Water: Negligible
Viscosity: 680 cSt (680 mm²/sec) at 40 °C
Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

Freezing Point: N/D
Melting Point: N/A
Pour Point: -30°C (-22°F)
Decomposition Temperature: N/D

SECTION 10	STABILITY AND REACTIVITY
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STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11	TOXICOLOGICAL INFORMATION
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ACUTE TOXICITY

<u>Route of Exposure</u>	<u>Conclusion / Remarks</u>
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.

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Ingestion	
Toxicity (Rat): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

CHRONIC/OTHER EFFECTS

Contains:

Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC

2 = NTP SUS

3 = IARC 1

4 = IARC 2A

5 = IARC 2B

6 = OSHA CARC

SECTION 12	ECOLOGICAL INFORMATION
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The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

Material -- Not expected to demonstrate chronic toxicity to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

SECTION 13	DISPOSAL CONSIDERATIONS
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Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14	TRANSPORT INFORMATION
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LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

SECTION 15	REGULATORY INFORMATION
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OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

Complies with the following national/regional chemical inventory requirements:: TSCA

Special Cases:

Inventory	Status
AICS	Restrictions Apply
ELINCS	Restrictions Apply
KECI	Restrictions Apply

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EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
PHENOL, 4,4-METHYLENEBIS(2,6-BIS(1,1-DIMETHYLETHYL)-	118-82-1	5

--REGULATORY LISTS SEARCHED--

- | | | | |
|---------------|------------------|-------------------|-------------|
| 1 = ACGIH ALL | 6 = TSCA 5a2 | 11 = CA P65 REPRO | 16 = MN RTK |
| 2 = ACGIH A1 | 7 = TSCA 5e | 12 = CA RTK | 17 = NJ RTK |
| 3 = ACGIH A2 | 8 = TSCA 6 | 13 = IL RTK | 18 = PA RTK |
| 4 = OSHA Z | 9 = TSCA 12b | 14 = LA RTK | 19 = RI RTK |
| 5 = TSCA 4 | 10 = CA P65 CARC | 15 = MI 293 | |

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16	OTHER INFORMATION
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N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

- Revision Changes:
 Section 09: Boiling Point C(F) was modified.
 Section 09: Flash Point C(F) was modified.
 Section 09: n-Octanol/Water Partition Coefficient was modified.
 Section 08: Comply with applicable regulations phrase was modified.
 Section 01: Product Intended Use was modified.
 Section 09: Vapor Pressure was modified.
 Section 09: Flash Point C(F) was modified.
 Section 09: Viscosity was modified.
 Section 15: National Chemical Inventory Listing was modified.
 Section 15: Special Cases Table was modified.
 Section 09: Vapor Pressure was deleted.

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included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

Internal Use Only

MHC: 0B, 0B, 0, 0, 0, 0

PPEC: A

DGN: 2007979XUS (547918)

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