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## SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

**Product Name:** MOBIL SHC RARUS 46  
**Product Description:** Synthetic Base Stocks and Additives  
**Product Code:** 201560201060  
**Intended Use:** Air compressor oil

#### COMPANY IDENTIFICATION

**Supplier:** SOL ANTILLES NV (St. Maarten)  
Cole Bay Depot.  
26 Cay Bay Road St. Maarten  
**24 Hour Health Emergency** +1 703-741-5970 (CHEMTREC)  
**Supplier General Contact** 1-721-544 5361

### SECTION 2 HAZARDS IDENTIFICATION

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

#### Other hazard information:

**HAZARD NOT OTHERWISE CLASSIFIED (HNOC):** None as defined under 29 CFR 1910.1200.

#### PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

#### HEALTH HAZARDS

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

#### ENVIRONMENTAL HAZARDS

No significant hazards.

<b>NFPA Hazard ID:</b>	Health: 0	Flammability: 1	Reactivity: 0
<b>HMIS Hazard ID:</b>	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

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from person to person.

<b>SECTION 3</b>	<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
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This material is defined as a mixture.

**No Hazardous Substance(s) or Complex Substance(s) required for disclosure.**

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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**INHALATION**

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

<b>SECTION 5</b>	<b>FIRE FIGHTING MEASURES</b>
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**EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) 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:** Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulfur oxides

**FLAMMABILITY PROPERTIES**

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

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**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0  
**Autoignition Temperature:** 373°C (703°F) [ASTM E659]

<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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### 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.

### 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.

<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
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### HANDLING

This material is not intended for use in air compressors for breathing applications. 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.

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## STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers.

<b>SECTION 8</b>	<b>EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction), 5 mg/m<sup>3</sup> - OSHA PEL.

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

No biological limits allocated.

## 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

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

### GENERAL INFORMATION

**Physical State:** Liquid  
**Color:** Amber  
**Odor:** Characteristic  
**Odor Threshold:** N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Relative Density (at 15 °C):** 0.868 [ASTM D1298]  
**Flammability (Solid, Gas):** N/A  
**Flash Point [Method]:** 210°C (410°F) [ASTM D-92]  
**Flammable Limits (Approximate volume % in air):** LEL: 0.9 UEL: 7.0  
**Autoignition Temperature:** 373°C (703°F) [ASTM E659]  
**Boiling Point / Range:** > 316°C (601°F)  
**Decomposition Temperature:** N/D  
**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:** 44.1 cSt (44.1 mm<sup>2</sup>/sec) at 40 °C [ASTM D 445]  
**Oxidizing Properties:** See Hazards Identification Section.

### OTHER INFORMATION

**Freezing Point:** N/D  
**Melting Point:** N/A  
**Pour Point:** -33°C (-27°F) [ASTM D5950]

## SECTION 10 STABILITY AND REACTIVITY

**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions.

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**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.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**INFORMATION ON TOXICOLOGICAL EFFECTS**

<b>Hazard Class</b>	<b>Conclusion / Remarks</b>
<b>Inhalation</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
<b>Ingestion</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
<b>Skin</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
<b>Eye</b>	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
<b>Sensitization</b>	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.
<b>Aspiration:</b> Data available.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
<b>Germ Cell Mutagenicity:</b> No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
<b>Carcinogenicity:</b> No end point data for material.	Not expected to cause cancer. Based on assessment of the components.
<b>Reproductive Toxicity:</b> No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
<b>Lactation:</b> No end point data for material.	Not expected to cause harm to breast-fed children.
<b>Specific Target Organ Toxicity (STOT)</b>	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

**OTHER INFORMATION**

**Contains:**

Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on

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laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans.

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

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

**ECOTOXICITY**

Material -- Not expected to be harmful 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.

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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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

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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.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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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

**Marine Pollutant:** No

**AIR (IATA):** Not Regulated for Air Transport

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**OSHA HAZARD COMMUNICATION STANDARD:** This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

**Listed or exempt from listing/notification on the following chemical inventories:** AICS, DSL, IECSC, ISHL, KECI, TCSI, TSCA

**Special Cases:**

<b>Inventory</b>	<b>Status</b>
PICCS	Restrictions Apply

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA (311/312) REPORTABLE GHS HAZARD CLASSES:** None.

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



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The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
NAPHTHALENE	91-20-3	10

--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



**WARNING:** Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

This warning is given to comply with California Health and Safety Code 25249.6 and does not constitute an admission or a waiver of rights.

N/D = Not determined, N/A = Not applicable

### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Composition: Defined as statement (GHS) information was added.

Composition: No components information was modified.

Hazard Identification: Hazards Note information was added.

Hazard Identification: Health Hazards information was added.

Hazard Identification: HMIS Flammability information was modified.

Hazard Identification: HMIS Health information was added.

Hazard Identification: HMIS Reactivity information was modified.

Hazard Identification: NFPA Flammability information was modified.

Hazard Identification: NFPA Health information was added.

Hazard Identification: NFPA Reactivity information was modified.

Hazard Identification: Physical/Chemical Hazard information was deleted.

Section 04: First Aid Eye information was added.

Section 04: First Aid Ingestion information was added.

Section 04: First Aid Inhalation information was added.

Section 04: First Aid Skin information was added.

Section 05: Fire Fighting Measures - Appropriate Extinguishing Media information was modified.

Section 05: Fire Fighting Measures - Fire Fighting Instruction information was added.

Section 05: Fire Fighting Measures - Inappropriate Extinguishing Media information was added.

Section 05: Hazardous Combustion Products information was added.

Section 06: Accidental Release - Spill Management - Land information was added.

Section 06: Accidental Release - Spill Management - Water information was added.

Section 06: Accidental Release Measures - Environmental Precautions information was added.

Section 06: Notification Procedures information was added.

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Section 06: Protective Measures information was modified.  
Section 06: Spill Management Recommendations - Default information was added.  
Section 07: Handling and Storage - Handling information was modified.  
Section 07: Handling and Storage - Storage Phrases information was added.  
Section 07: Static Accumulator information was modified.  
Section 08: Exposure Control - Note information was modified.  
Section 08: Exposure Control information was added.  
Section 08: Exposure limits/standards information was modified.  
Section 08: Eye Protection information was added.  
Section 08: Hand Protection information was added.  
Section 08: Personal Protection information was added.  
Section 08: Respiratory Protection information was added.  
Section 08: Skin and Body Protection information was added.  
Section 08: Specific Hygiene Measures information was added.  
Section 09: Autoignition Temperature information was modified.  
Section 09: Boiling Point C(F) information was added.  
Section 09: Color information was added.  
Section 09: Evaporation Rate information was added.  
Section 09: Flammability (Solid, Gas) information was added.  
Section 09: Flammable Limits - LEL information was added.  
Section 09: Flammable Limits - UEL information was added.  
Section 09: Flash Point C(F) information was added.  
Section 09: Freezing Point C(F) information was added.  
Section 09: Melting Point C(F) information was added.  
Section 09: n-Octanol/Water Partition Coefficient information was added.  
Section 09: pH information was added.  
Section 09: Phys/Chem Properties Note information was added.  
Section 09: Physical State information was added.  
Section 09: Pour Point C(F) information was added.  
Section 09: Relative Density information was added.  
Section 09: Solubility in Water information was added.  
Section 09: Vapor Pressure information was added.  
Section 09: Viscosity information was added.  
Section 10: Conditions to Avoid information was added.  
Section 10: Decomposition Products information was added.  
Section 10: Materials to Avoid information was added.  
Section 10: Possibility of Hazardous Reactions information was added.  
Section 10: Stability information was added.  
Section 11: Aspiration Conclusion information was added.  
Section 11: Aspiration Test Data information was added.  
Section 11: Carcinogen Conclusion information was added.  
Section 11: Carcinogen Test Comment information was added.  
Section 11: Carcinogen Test Data information was added.  
Section 11: Chronic Tox - Component information was added.  
Section 11: Dermal Irritation Test Comment information was added.  
Section 11: Dermal Irritation Test Data information was added.  
Section 11: Dermal Lethality Test Comment information was added.  
Section 11: Dermal Lethality Test Data information was added.  
Section 11: Eye Irritation Conclusion information was added.  
Section 11: Eye Irritation Test Comment information was added.  
Section 11: Eye Irritation Test Data information was added.  
Section 11: Ingestion Lethality Conclusion information was added.

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Section 11: Inhalation Irritation Test Data information was added.  
Section 11: Inhalation Lethality Conclusion information was added.  
Section 11: Inhalation Lethality Test Comment information was added.  
Section 11: Inhalation Lethality Test Data information was added.  
Section 11: Lactation Conclusion information was added.  
Section 11: Lactation Test Data information was added.  
Section 11: Mutagen Conclusion information was added.  
Section 11: Mutagen Test Comment information was added.  
Section 11: Mutagen Test Data information was added.  
Section 11: Oral Lethality Test Comment information was added.  
Section 11: Oral Lethality Test Data information was added.  
Section 11: Other Health Effects Header information was added.  
Section 11: Other Health Effects information was added.  
Section 11: Reproductive Conclusion information was added.  
Section 11: Reproductive Test Comment information was added.  
Section 11: Reproductive Test Data information was added.  
Section 11: Respiratory Sensitization Conclusion information was added.  
Section 11: Respiratory Sensitization Test Data information was added.  
Section 11: Skin Irritation Conclusion information was added.  
Section 11: Skin Lethality Conclusion information was added.  
Section 11: Skin Sensitization Conclusion information was added.  
Section 11: Skin Sensitization Test Comment information was added.  
Section 11: Skin Sensitization Test Data information was added.  
Section 11: Target Organ Toxicity - Repeat Conclusion information was added.  
Section 11: Target Organ Toxicity - Repeat Test Comment information was added.  
Section 11: Target Organ Toxicity - Repeat Test Data information was added.  
Section 11: Target Organ Toxicity - Single Conclusion information was added.  
Section 11: Target Organ Toxicity - Single Test Data information was added.  
Section 12: Ecological Information - Acute Aquatic Toxicity information was added.  
Section 12: Ecological Information - Mobility information was added.  
Section 12: Mobility - Header information was added.  
Section 12: information was added.  
Section 13: Disposal Considerations - Disposal Recommendations information was modified.  
Section 13: Disposal Recommendations - Note information was added.  
Section 13: Empty Container Warning information was added.  
Section 13: Regulatory Disposal Information information was added.  
Section 14: Air (IATA) - Default information was added.  
Section 14: LAND (DOT) - Default information was added.  
Section 14: LAND (TDG) Default information was added.  
Section 14: Marine Pollutant information was added.  
Section 14: Sea (IMDG) - Default information was added.  
Section 15: List Citations Table information was added.  
Section 15: National Chemical Inventory Listing information was added.  
Section 15: SARA (311/312) REPORTABLE GHS HAZARD CLASSES information was added.  
Section 15: Special Cases Table information was added.  
Section 16: Code to MHCs information was added.  
Section 16: Code to PPEs information was added.  
Section 16: Copyright - XOM information was added.  
Section 16: Standard phrases for California Proposition 65 information was added.

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The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current

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