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MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: MOBILUBE GX-A 80W
Product Description: Base Oil and Additives
Product Code: 201520502030, 510222-61
Intended Use: Gear oil

COMPANY IDENTIFICATION

Manufacturer/Supplier: TOTAL VIETNAM CO. LTD
Land lot 3
Go Dau Industrial Zone
Long Thanh
Dong Nai Vietnam
Or ExxonMobil Affiliates

Supplier General Contact 84-61-3543056

SECTION 2 HAZARDS IDENTIFICATION

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

Other hazard information:

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.

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 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*	GHS Hazard Codes
LONG-CHAIN ALKENYL AMINE	112-90-3	0.1 - < 0.25%	H302, H304, H335, H314(1B), H373, H400(M factor 10), H410(M factor 10)
OLEFIN SULFIDE	68511-50-2	1 - < 5%	H227
PHOSPHORIC ACID ESTERS, AMINE SALT	CONFIDENTIAL	0.1 - < 1%	H226, H302, H317, H318, H401, H411

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

SECTION 4 FIRST AID MEASURES

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.

NOTE TO PHYSICIAN

None

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.

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

FLAMMABILITY PROPERTIES

Flash Point [Method]: >193°C (379°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
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NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

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.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

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
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HANDLING

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may

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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. Keep away from incompatible materials.

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 is recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction).

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. Particulate

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:

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No protection is ordinarily required under normal conditions of use. Nitrile, Viton

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
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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): 0.89

Flammability (Solid, Gas): N/A

Flash Point [Method]: >193°C (379°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)

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: 75.8 cSt (75.8 mm²/sec) at 40 °C | 10 cSt (10 mm²/sec) at 100°C

Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

Freezing Point: N/D

Melting Point: N/A

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Pour Point: -33°C (-27°F)
DMSO Extract (mineral oil only), IP-346: < 3 %wt

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.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

SECTION 11	TOXICOLOGICAL INFORMATION
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INFORMATION ON TOXICOLOGICAL EFFECTS

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

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material.	exposure. Based on assessment of the components.
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OTHER INFORMATION

For the product itself:

Repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract.

Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

IARC Classification:

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

--REGULATORY LISTS SEARCHED--

1 = IARC 1

2 = IARC 2A

3 = IARC 2B

SECTION 12 ECOLOGICAL INFORMATION

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.

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.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

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.

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 : 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

SECTION 15	REGULATORY INFORMATION
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This material is not considered hazardous according to the Law on Chemicals.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Listed or exempt from listing/notification on the following chemical inventories:
AICS, DSL, ENCS, IECSC, KECI, PICCS, TSCA

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

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H226: Flammable liquid and vapor; Flammable Liquid, Cat 3

H227: Combustible liquid; Flammable Liquid, Cat 4

H302: Harmful if swallowed; Acute Tox Oral, Cat 4

H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1

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H314(1B): Causes severe skin burns and eye damage; Skin Corr/Irritation, Cat 1B
H317: May cause allergic skin reaction; Skin Sensitization, Cat 1
H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1
H335: May cause respiratory irritation; Target Organ Single, Resp Irr
H373: May cause damage to organs through prolonged or repeated exposure; Target Organ, Repeated, Cat 2
H400: Very toxic to aquatic life; Acute Env Tox, Cat 1
H401: Toxic to aquatic life; Acute Env Tox, Cat 2
H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1
H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Changes:

Section 04: First Aid Skin information was modified.
Section 06: Protective Measures information was modified.
Section 09: Phys/Chem Properties Note information was modified.
Section 09: Boiling Point C(F) information was modified.
Section 09: Pour Point C(F) information was modified.
Section 16: Not determined, Not applicable information was modified.
Section 09: Flash Point C(F) information was modified.
Section 09: n-Octanol/Water Partition Coefficient information was modified.
Section 08: Comply with applicable regulations phrase information was modified.
Section 09: Vapor Pressure information was modified.
Section 07: Handling and Storage - Handling information was modified.
Section 11: Dermal Lethality Test Comment information was modified.
Section 11: Oral Lethality Test Comment information was modified.
Section 11: Inhalation Lethality Test Comment information was modified.
Section 11: Dermal Irritation Test Comment information was modified.
Section 11: Eye Irritation Test Comment information was modified.
Section 11: Inhalation Irritation Test Data information was modified.
Section 05: Hazardous Combustion Products information was modified.
Section 09: Relative Density - Header information was modified.
Section 09: Flash Point C(F) information was modified.
Section 09: Viscosity information was modified.
Section 09: Viscosity information was modified.
Section 15: EU Inventory Requirements - Header information was modified.
Section 08: Hand Protection information was modified.
Section 08: Skin and Body Protection information was modified.
Section 11: Inhalation Lethality Test Comment information was modified.
Section 15: National Chemical Inventory Listing information was modified.
Section 11: Additional Health Information information was modified.
Section 16: MSN, MAT ID information was modified.
Section 08: Exposure limits/standards information was modified.
Section 11: Chronic Tox - Component information was modified.
Section 01: Company Contact Methods information was modified.
Section 14: Marine Pollutant information was modified.
Composition: Component Table information was modified.
Section 16: HCode Key information was modified.
Section 08: Hand Protection CEN Standards - AP information was added.
Section 08: Respiratory CEN Standards - AP information was added.
Section 11: Chronic Tox - Component - Header information was added.
Section 09: Decomposition Temperature - Header information was added.
Section 09: Flammability (Solid, Gas) - Header information was added.

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Section 09: Flammability (Solid, Gas) information was added.
Section 09: Decomposition Temp C(F) information was added.
Section 11: Inhalation Lethality Test Guideline information was added.
Section 11: Oral Lethality Test Guideline information was added.
Section 11: Dermal Lethality Test Guideline information was added.
Section 11: Skin Sensitization Test Data - Header information was added.
Section 11: Respiratory Sensitization Test Comment information was added.
Section 11: Skin Sensitization Conclusion information was added.
Section 11: Skin Sensitization Test Guideline information was added.
Section 11: Skin Sensitization Test Comment information was added.
Section 11: Aspiration Conclusion information was added.
Section 11: Carcinogen Conclusion information was added.
Section 11: Lactation Conclusion information was added.
Section 11: Mutagen Conclusion information was added.
Section 11: Reproductive Conclusion information was added.
Section 11: Respiratory Sensitization Conclusion information was added.
Section 11: Target Organ Toxicity - Repeat Conclusion information was added.
Section 11: Target Organ Toxicity - Single Conclusion information was added.
Section 11: Carcinogen Test Guideline information was added.
Section 11: Eye Irritation Test Guideline information was added.
Section 11: Lactation Test Guideline information was added.
Section 11: Mutagen Test Guideline information was added.
Section 11: Reproductive Test Guideline information was added.
Section 11: Skin Irritation Test Guideline information was added.
Section 11: Target Organ Toxicity - Repeat Test Guideline information was added.
Section 11: Target Organ Toxicity - Single Test Guideline information was added.
Section 11: Carcinogen Test Comment information was added.
Section 11: Mutagen Test Comment information was added.
Section 11: Reproductive Test Comment information was added.
Section 11: Lactation Test Comment information was added.
Section 11: Target Organ Toxicity - Repeat Test Comment information was added.
Section 11: Target Organ Toxicity - Single Test Comment information was added.
Section 11: Sensitization Test Data - Header information was added.
Section 11: Respiratory Sensitization Test Data - Header information was added.
Section 11: Aspiration Test Data - Header information was added.
Section 11: Carcinogenicity Test Data - Header information was added.
Section 11: Germ Cell Mutagenicity Test Data - Header information was added.
Section 11: Reproductive Toxicity Test Data - Header information was added.
Section 11: Lactation Test Data - Header information was added.
Section 11: Specific Target Organ Toxicity Test Data - Header information was added.
Section 11: Target Organ Toxicity - Single Test Data - Header information was added.
Section 11: Target Organ Toxicity - Repeat Test Data - Header information was added.
Section 11: Acute Toxicity Column Header information was added.
Section 11: Other Health Effects Header information was added.
GHS Target Organ Phrase information was added.
Section 11: Other Health Effects information was added.
Section 11: Acute Toxicity Table Header information was added.
Section 11: Inhalation Lethality Test Data information was added.
Section 11: Oral Lethality Test Data information was added.
Section 11: Dermal Lethality Test Data information was added.
Section 11: Dermal Irritation Test Data information was added.
Section 11: Eye Irritation Test Data information was added.

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Section 11: Respiratory Sensitization Test Data information was added.
Section 11: Skin Sensitization Test Data information was added.
Section 11: Aspiration Test Data information was added.
Section 11: Mutagen Test Data information was added.
Section 11: Carcinogen Test Data information was added.
Section 11: Reproductive Test Data information was added.
Section 11: Lactation Test Data information was added.
Section 11: Target Organ Toxicity - Single Test Data information was added.
Section 11: Target Organ Toxicity - Repeat Test Data information was added.
Section 11: Acute Toxicity Table Header information was deleted.
Section 11: Acute Toxicity Column Header information was deleted.
Section 11: Dermal Lethality Test Data information was deleted.
Section 11: Oral Lethality Test Data information was deleted.
Section 11: Inhalation Lethality Test Data information was deleted.
Section 11: Dermal Irritation Test Data information was deleted.
Section 11: Eye Irritation Test Data information was deleted.
Section 09: Decomposition Temperature information was deleted.
Section 09: Decomposition Temp - Header information was deleted.
Section 11: Other Health Effects Header information was deleted.
Section 08: Biological Limits - Header information was deleted.
Section 08: Biological Limits - Allocation information was deleted.
Section 16: Revision Information - Implementation of GHS requirements phrase. information was deleted.
Section 11: Chronic Tox - Component information was deleted.
Section 11: Chronic Tox - Component - Header information was deleted.
Section 09: Flammability (Solid, Gas) information was deleted.
Section 09: Flammability (Solid, Gas) - Header information was deleted.
Section 09: Decomposition Temperature - Header information was deleted.
Section 09: Decomposition Temp C(F) information was deleted.
Section 12: GHS Environmental component tox table information was deleted.
Section 12: GHS Environmental component tox table - Toxicity Column - Header information was deleted.
Section 12: GHS Environmental component tox table - Component Column - Header information was deleted.
Section 12: Ecological data - Header information was deleted.

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