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MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: MOBILCUT 320
Product Description: Chemical Mixture

Product Code: 2015703010L5
Intended Use: Water-miscible cutting fluid

COMPANY IDENTIFICATION

Manufacturer/Supplier:
For details contact Mobil Korea Lube Oil Inc.
Level 22, Seoul Square bd., 416
Hangang-daero, Jung-gu,
Seoul Republic of Korea

Emergency Response Number	00-308-13-2549 / +1-703-527-3887
Supplier General Contact	82-2-750-8700
FAX	82-2-3671-5000

SECTION 2 HAZARDS IDENTIFICATION

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

CLASSIFICATION:

Skin irritation: Category 2. Eye irritation: Category 2A.
Chronic aquatic toxicant: Category 3.

LABEL:

Symbol:



Signal Word: Warning

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Hazard Statements:

Health: H315: Causes skin irritation. H319: Causes serious eye irritation.
Environmental: H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention: P261: Avoid breathing mist / vapours. P264: Wash skin thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves and eye / face protection.
Response: P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash it before reuse.
Disposal: P501: Dispose of contents and container in accordance with local regulations.

Other hazard information:

PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

HEALTH HAZARDS

High-pressure injection under skin may cause serious damage. This product may be used in certain applications where misting can occur. Excessive exposure to liquids and mists may cause skin and eye irritation. In addition, excessive exposure to mists may cause respiratory irritation and damage and aggravate pre-existing emphysema or asthma.

ENVIRONMENTAL HAZARDS

No additional hazards.

NFPA Hazard ID:	Health: 2	Flammability: 1	Reactivity: 0
HMIS Hazard ID:	Health: 2	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 3	COMPOSITION / INFORMATION ON INGREDIENTS
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This material is defined as a mixture.

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

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Name	CAS#	Concentration*	GHS Hazard Codes
1,2,3-PROPANETRIOL	56-81-5	1 - < 5%	None
2-PROPANOL, 1-AMINO-	78-96-6	1 - < 5%	H303, H312, H314(1B)
ETHANOL, 2,2,2-NITRILOTRIS-	102-71-6	10 - < 20%	None
OCTANOIC ACID, REACTION PRODUCTS WITH ISOPROPANOLAMINE	68171-53-9	10 - < 20%	H315, H319(2A)
SEBACIC ACID, REACTION PRODUCTS WITH TEA	70103-35-4	5 - < 10%	H315, H319(2A)
SODIUM 2-PYRIDINETHIOL-1-OXIDE	3811-73-2	0.025 - < 0.1%	H302, H312, H332, H315, H319(2A), H400(M factor 100), H410(M factor 10)

Other Substances

Name	CAS #	Concentration
Trade Secret 01	Trade Secret	60-70%
Trade Secret 02	Trade Secret	0.1-1%
Trade Secret 03	Trade Secret	<0.1%
Trade Secret 04	Trade Secret	<0.1%
Trade Secret 05	Trade Secret	<0.1%
Total concentration of all substances		100%

ISHL - Prohibited, Subject to an Approval for Manufacturing and Controlled Hazardous Substances: None.

CCA - Toxic, Banned and Restricted Toxic Chemicals, Authorization substances, Accidental Release Prevention Substances and Priority Existing Chemicals to Registration: None.

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

SECTION 4 FIRST AID MEASURES

EYE CONTACT

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. 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.

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.

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INGESTION

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

ACUTE AND DELAYED SYMPTOMS/EFFECTS

See Toxicological Section

NOTE TO PHYSICIAN

Pre-existing conditions which may be aggravated by exposure include emphysema and asthma. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE

None.

SECTION 5	FIRE FIGHTING MEASURES
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FLAMMABILITY PROPERTIES

Flash Point [Method]: >100° C (212° F) [ASTM D-92]

Autoignition Temperature: >150° C (302° F)

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

CLASSIFICATION UNDER THE LAW OF SAFETY MANAGEMENT OF DANGEROUS SUBSTANCES

Category 4. Class 3 petroleum chemicals-water soluble liquids

EXTINGUISHING MEDIA

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

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.

Unusual Fire Hazards: Pressurized mists may form a flammable mixture. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

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

Inappropriate Extinguishing Media: Straight Streams of Water

SECTION 6	ACCIDENTAL RELEASE MEASURES
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PROTECTIVE MEASURES

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Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the 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.

NOTIFICATION PROCEDURES

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

ENVIRONMENTAL PRECAUTIONS

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

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Do not touch or walk through spilled material. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Warn other shipping. Seek advice of a specialist. This product emulsifies, disperses or is miscible in water.

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.

SECTION 7

HANDLING AND STORAGE

HANDLING

Avoid breathing mists or vapors. Avoid contact with skin. Avoid contact with eyes. Small metal particles from machining may cause abrasion of the skin and may predispose to dermatitis. Prevent small spills and leakage to avoid slip hazard. Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. 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 type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers.

Unsuitable Materials and Coatings: Rubber; Aluminum; Copper

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters/Exposure limits:

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Standard			Note	Source	Year
1,2,3-PROPANETRIOL	Mist.	TWA	10 mg/m3			Korea OELs	2018
ETHANOL, 2,2,2-NITRILOTRIS-		TWA	5 mg/m3			ACGIH	2018

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.

Biological limits

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:

Particulate air-purifying respirator approved for dust / oil mist is recommended.

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.

Eye Protection: Chemical goggles are recommended.

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:

Chemical resistant gloves are recommended. Nitrile, Viton

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:
Chemical/oil resistant clothing is recommended.

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: Yellow
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

pH: 9.8
Solubility in Water: Emulsifies

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Boiling Point / Range: > 100° C (212° F)
Melting Point: N/A
Freezing Point: N/D
Explosive Properties: N/D
Decomposition Temperature: N/D
Oxidizing Properties: See Sections 2, 15, 16.
Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 ° C [Estimated]
Relative Density (at 15 ° C): 1.04
Log Pow (n-Octanol/Water Partition Coefficient): N/D
Vapor Density (Air = 1): N/D
Viscosity: [N/D at 40 ° C]
Molecular Weight: N/D
Flammability (Solid, Gas): N/A
Flash Point [Method]: >100° C (212° F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D
Autoignition Temperature: >150° C (302° F)
Evaporation Rate (n-butyl acetate = 1): < 1

OTHER INFORMATION

Pour Point: < 0° C (32° F)

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Heat/ Freezing temperatures.

MATERIALS TO AVOID: Strong Acids, 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

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.	Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.

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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.	Irritating to the skin. Based on assessment of the components.
Eye	
Serious Eye Damage/Irritation: No end point data for material.	Irritating and will injure eye tissue. 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 material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

TOXICITY FOR SUBSTANCES

NAME	ACUTE TOXICITY
2-PROPANOL, 1-AMINO-	Dermal Lethality: LD50 1851 mg/kg (Rabbit); Oral Lethality: LD50 2813 mg/kg (Rat)
SODIUM 2-PYRIDINETHIOL-1-OXIDE	Dermal Lethality: LD50 1800 mg/kg (Rabbit); Inhalation Lethality: 4 hour(s) LC50 1.08 mg/l (Aerosol) (Rat); Oral Lethality: LD50 1208 mg/kg (Rat)

OTHER INFORMATION

Contains:

Alkanolamines: Repeated overexposure to alkanolamines caused liver and kidney damage in laboratory animals.

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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 for the material, components of the material, or for similar materials, through the application of bridging principals.

ECOTOXICITY

Material -- Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Components -- Expected to be inherently biodegradable

SECTION 13

DISPOSAL CONSIDERATIONS

WASTE TREATMENT LAW: Waste Oil is a designated waste.

DISPOSAL METHODS

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.

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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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REGULATION ON SHIP-TRANSPORTATION AND STORAGE OF DANGEROUS SUBSTANCES (SEA (IMDG)) Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

CAUTIONS FOR TRANSPORT: Not applicable

INTERNATIONAL CLASSIFICATION AND RESTRICTIONS

LAND : Not Regulated for Land Transport

AIR (IATA): Not Regulated for Air Transport

SECTION 15	REGULATORY INFORMATION
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This material is considered hazardous according to the Korean Standards for Classification and Labeling of Chemical Substances and Material Safety Data Sheets.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

INDUSTRIAL SAFETY AND HEALTH LAW: Regulated. See Hazards Identification Section

CHEMICAL CONTROL ACT (CCA): See Composition/Ingredient Section

LAW OF SAFETY MANAGEMENT OF DANGEROUS SUBSTANCES: See Fire Fighting Measures Section

WASTE TREATMENT LAW: See Disposal Considerations Section

OTHER REGULATIONS BASED ON FOREIGN LAWS

Listed or exempt from listing/notification on the following chemical inventories (May contain substance(s) subject to notification to the EPA Active TSCA inventory prior to import to USA):
IECSC, KECI, TCSI, TSCA

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SECTION 16	OTHER INFORMATION
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REFERENCES: Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, CONCAWE Product Dossiers, publications from other trade associations, such as the EU Hydrocarbon Solvents REACH Consortium, U.S. HPV Program Robust Summaries, the EU IUCLID Data Base, U.S. NTP publications, and other sources, as appropriate.

OTHER INFORMATION

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

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

- H302: Harmful if swallowed; Acute Tox Oral, Cat 4
- H303: May be harmful if swallowed; Acute Tox Oral, Cat 5
- H312: Harmful in contact with skin; Acute Tox Dermal, Cat 4
- H314(1B): Causes severe skin burns and eye damage; Skin Corr/Irritation, Cat 1B
- H315: Causes skin irritation; Skin Corr/Irritation, Cat 2
- H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A
- H332: Harmful if inhaled; Acute Tox Inh, Cat 4
- H400: Very toxic to aquatic life; Acute Env Tox, Cat 1
- H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

- Composition: Component Table information was modified.
- Composition: Other Substances information was modified.
- Composition: TCCA Chemicals from Toxic, Observational, Banned and Restricted lists information was deleted.
- GHS Environmental Classification information was added.
- GHS Environmental Hazards information was added.
- GHS Precautionary Statements – Disposal information was added.
- GHS Precautionary Statements – Prevention information was modified.
- GHS Precautionary Statements – Response information was modified.
- Hazard Identification: Health Hazards information was modified.
- Hazard Identification: Physical/Chemical Hazard information was modified.
- Section 01: Preparation Date information was modified.
- Section 01: Product Description information was modified.
- Section 04: First Aid Ingestion information was modified.
- Section 04: First Aid Notes information was modified.
- Section 05: Hazardous Combustion Products information was modified.
- Section 06: Accidental Release – Spill Management – Land information was modified.
- Section 06: Accidental Release – Spill Management – Water information was modified.
- Section 07: Handling and Storage – Handling information was modified.
- Section 07: Handling and Storage – Storage Phrases information was modified.

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Section 07: Materials/Coatings – Unsuitable information was added.
Section 08: Exposure Limits Table information was modified.
Section 08: Eye Protection information was modified.
Section 08: Hand Protection CEN Standards – AP information was added.
Section 08: Respiratory CEN Standards – AP information was added.
Section 09: Boiling Point C(F) information was modified.
Section 09: Color information was modified.
Section 09: Evaporation Rate information was modified.
Section 09: Flash Point C(F) information was deleted.
Section 09: Flash Point C(F) information was modified.
Section 09: Korea Flash Point C(F) information was added.
Section 09: pH information was modified.
Section 09: Relative Density information was modified.
Section 09: Vapor Pressure information was deleted.
Section 09: Vapor Pressure information was modified.
Section 09: Viscosity information was modified.
Section 10: Conditions to Avoid information was modified.
Section 10: Materials to Avoid information was modified.
Section 11 Acute Toxicity data – Header information was added.
Section 11 Substance Name – Header information was added.
Section 11 Substance Toxicity table – Header information was added.
Section 11 Substance Toxicology table information was added.
Section 11: Chronic Tox – Component information was added.
Section 11: Chronic Tox – Product information was deleted.
Section 11: Dermal Lethality Test Comment information was modified.
Section 11: Dermal Lethality Test Data information was modified.
Section 11: Dermal Lethality Test Guideline information was deleted.
Section 11: Inhalation Lethality Conclusion information was modified.
Section 11: Oral Lethality Test Comment information was modified.
Section 11: Oral Lethality Test Data information was modified.
Section 11: Oral Lethality Test Guideline information was deleted.
Section 11: Other Health Effects Header information was modified.
Section 11: Other Health Effects information was added.
Section 12: Bioaccumulation – Header information was deleted.
Section 12: Ecological Information – Acute Aquatic Toxicity information was added.
Section 12: Ecological Information – Acute Aquatic Toxicity information was deleted.
Section 12: Ecological Information – Bioaccumulation information was deleted.
Section 12: Ecological Information – Biodegradation information was added.
Section 12: Persistence and Degradability– Header information was added.
Section 15: National Chemical Inventory Listing information was modified.
Section 16: HCode Key information was modified.
Section 16: MSN, MAT ID information was modified.
Section 16: Synonyms information was added.

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SYNONYMS: VERTOGRIND JLC

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