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SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

This Safety Data Sheet is based on European Union regulatory requirements.

1.1. PRODUCT IDENTIFIER

Product Name: MOBILGEAR OGL 007
Product Description: Base Oil and Additives

Product Code: 201560402010, 400173, 611400-60

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended Use: Grease

Uses advised against: None unless specified elsewhere in this SDS.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier: EXXONMOBIL PETROLEUM & CHEMICAL MOSCOW REP. OFFICE

31 NOVINSKY BOULEVARD

123242 MOSCOW Russian Fed.

Supplier General Contact: +7 (495) 1391444

SDS Internet Address: www.msds.exxonmobil.com

1.4. EMERGENCY TELEPHONE NUMBER

SECTION 2 HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008

Not Classified

2.2. LABEL ELEMENTS

Label elements according to Regulation (EC) No 1272/2008

Hazard Statements:



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Supplemental:

EUH210: Safety data sheet available on request.

EUH208: Contains: AMINES, C12-14-TERT-ALKYL May produce an allergic reaction.

2.3. OTHER HAZARDS

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. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

Endocrine Disrupting Properties:

Contains no substance(s) known to have endocrine disrupting properties.

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

3.1. SUBSTANCES Not Applicable. This material is regulated as a mixture.

3.2. MIXTURES

This material is defined as a mixture.

Reportable hazardous substance(s) complying with the classification criteria and/or with an exposure limit

(OEL)						
Name	CAS#	EC#	Registration#	Concentration *	GHS/CLP classification	Specific Conc. Limits, M- factors and ATEs
AMINES, C12- 14-TERT-ALKYL	-	701-175-2	01-2119456798-18	0.025 - < 0.1%	Acute Tox. 2 H330, Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Sens. 1A H317, Aquatic Acute 1 H400 (M factor 1), Aquatic Chronic 1 H410 (M factor 1), Skin Corr. 1B H314	Skin Sens. 1A H317 6.78% ≤ C ≤ 100% ATE (DERMAL) = 251 MG/KG, ATE (ORAL) = 612 MG/KG, ATE (INH) = 1.19 MG/L
POTASSIUM TRIBORON PENTAOXIDE	12007-40-8	701-296-0	01-2119980628-22	0.1 - < 1%	Repr. 2 H361d, Repr. 2 H361f	-
GRAPHITE	7782-42-5	231-955-3	NE	5 - < 10%	OEL	-
(Z)-OCTADEC-9- ENYLAMINE, C16-18-(EVEN NUMBERED,	1213789-63-9	627-034-4	01-2119473797-19	0.01 - < 0.025%	Acute Tox. 4 H302, Asp. Tox. 1 H304, STOT SE 3 H335, Aquatic Acute 1	-



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SATURATED AND UNSATURATED) -ALKYLAMINES					H400 (M factor 10), Aquatic Chronic 1 H410 (M factor 10), Skin Corr. 1B H314, STOT RE 2 H373	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	01-2119484627-25	1 - < 5%	Asp. Tox. 1 H304	-
ZINC DIALKYL DITHIOPHOSPH ATE	68457-79-4	270-608-0	01-2119493628-22	1 - < 2.5%	[Aquatic Acute 2 H401], Aquatic Chronic 2 H411, Skin Irrit. 2 H315, Eye Dam. 1 H318	Skin Irrit. 2 H315 15% ≤ C ≤ 100%, Eye Dam. 1 H318 3% ≤ C ≤ 100%

Note - any classification in brackets is a GHS building block that was not adopted by the EU in the CLP regulation (No 1272/2008) and therefore is not applicable in the EU or in non-EU countries which have implemented the CLP regulation and is shown for informational purposes only.

Note: See SDS Section 16 for full text of hazard statements.

SECTION 4

FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

INHALATION

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

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.

EYE CONTACT

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

INGESTION

Seek immediate medical attention.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



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SECTION 5

FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

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

Unsuitable Extinguishing Media: Straight streams of water

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

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

5.3. ADVICE FOR FIRE FIGHTERS

Fire Fighting Instructions: Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters 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.

FLAMMABILITY PROPERTIES

Flash Point [Method]: >204°C (400°F) [EST. FOR OIL, ASTM D-92 (COC)]

Upper/Lower Flammable Limits (Approximate volume % in air): UEL: No data available LEL: No

data available

Autoignition Temperature: No data available

SECTION 6

ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

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.

6.2. ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas.



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6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Land Spill: Scrape up spilled material with shovels into a suitable container for recycle or disposal.

Water Spill: Stop leak if you can do so without risk. Warn other shipping. Material will sink. Consult an expert. No immediate action required.

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.

6.4. REFERENCES TO OTHER SECTIONS

See Sections 8 and 13.

SECTION 7

HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid all personal contact. Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is not a static accumulator.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Do not store in open or unlabelled containers.

7.3. SPECIFIC END USES

Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

EXPOSURE LIMIT VALUES

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

Substance Name	Form	Limit/Sta	ndard	Note	Source
Distillates (petroleum), hydrotreated		TWA	5 mg/m3		ACGIH
heavy paraffinic	Inhalable				
	fraction.				
GRAPHITE		TWA	10 mg/m3		ACGIH
	Inhalable				
	particles.				
GRAPHITE		TWA	2 mg/m3		ACGIH
	Respirabl				
	е				
	fraction.				

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s):



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DERIVED NO EFFECT LEVEL (DNEL)/DERIVED MINIMAL EFFECT LEVEL (DMEL)

Worker

Substance Name	Dermal	Inhalation
Distillates (petroleum), hydrotreated	NA	5.4 mg/m3 DNEL, Chronic
heavy paraffinic		Exposure, Local Effects

Consumer

Substance Name	Dermal	Inhalation	Oral
Distillates (petroleum), hydrotreated	NA	1.2 mg/m3 DNEL, Chronic	NA
heavy paraffinic		Exposure, Local Effects	

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance Name	Aqua (fresh water)	Aqua (marine water)	Aqua (intermittent release)	Sewage treatment plant	Sediment	Soil	Oral (secondary poisoning)
Distillates (petroleum), hydrotreated heavy paraffinic	NA	NA	NA	NA	NA	NA	9.33 mg / kg (food)

8.2. EXPOSURE CONTROLS

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:



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No protection is ordinarily required under normal 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/vapour 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:

Chemical resistant gloves are recommended. Nitrile, minimum 0.38 mm thickness or comparable protective barrier material with a high performance level for continuous contact use conditions, permeation breakthrough minimum 480 minutes in accordance with CEN standards EN 420 and EN 374.

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:

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

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.

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Form: Semi-fluid
Colour: Black
Odour: Characteristic

Odour Threshold: No data available

Melting Point / Freezing Point: No data available / No data available Initial Boiling Point / and Boiling Range: > 316°C (600°F) [Estimated]

Flammability (Solid, Gas): Not technically feasible

Lower and Upper explosion limit: UEL: No data available LEL: No data available Flash Point [Method]: >204°C (400°F) [EST. FOR OIL, ASTM D-92 (COC)]

Autoignition Temperature: No data available



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Decomposition Temperature: No data available

pH: Not technically feasible

Kinematic Viscosity: 460 cSt (460 mm2/sec) at 40°C [test method unavailable]

Solubility: Negligible

Partition coefficient (n-Octanol/Water Partition Coefficient): > 3.5 [Estimated]

Vapour Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C [Estimated]

Relative Density (at 15 °C): 1.02 [ASTM D1298]
Relative Vapour Density (Air = 1): No data available
Evaporation Rate (n-butyl acetate = 1): No data available

Explosive Properties: None Oxidizing Properties: None Particle Characteristics

Median particle size: No data available

9.2. OTHER INFORMATION

DMSO Extract (mineral oil only), IP-346: < 3 %wt

9.2.1. INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

No data available

9.2.2. OTHER SAFETY CHARACTERISTICS

No data available

NOTE: Most physical properties above are for the oil component in the material.

SECTION 10 STABILITY AND REACTIVITY

10.1. REACTIVITY: See sub-sections below.

10.2. CHEMICAL STABILITY: Material is stable under normal conditions.

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

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

10.5. INCOMPATIBLE MATERIALS: Strong oxidisers

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

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008

<u>Hazard Class</u>	Conclusion / Remarks
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.



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Ingestion

Ingestion	
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.
material.	
Skin	
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.
material.	
Skin Corrosion/Irritation: No end point data	Negligible irritation to skin at ambient temperatures. Based on
for material.	assessment of the components.
Eye	
Serious Eye Damage/Irritation: No end point	May cause mild, short-lasting discomfort to eyes. Based on
data for material.	assessment of the components.
Sensitisation	
Respiratory Sensitization: No end point data	Not expected to be a respiratory sensitizer.
for material.	
Skin Sensitization: No end point data for	Not expected to be a skin sensitizer. Based on assessment of the
material.	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	Not expected to be a germ cell mutagen. Based on assessment of
for material.	the components.
Carcinogenicity: No end point data for	Not expected to cause cancer. Based on assessment of the
material.	components.
Reproductive Toxicity: No end point data	Contains a substance that may be a reproductive toxicant. Based
for material.	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	Not expected to cause organ damage from a single exposure.
material.	
Repeated Exposure: No end point data for	Not expected to cause organ damage from prolonged or repeated
material.	exposure. Based on assessment of the components.

TOXICITY FOR SUBSTANCES

NAME	ACUTE TOXICITY
	Dermal Lethality: LD 50 251 mg/kg (Rat); Inhalation Lethality: 4 hour(s) LC50 1.19 mg/l (Vapour) (Rat); Oral Lethality: LD 50 612
	mg/kg (Rat)

11.2. INFORMATION ON OTHER HAZARDS

11.2.1 ENDOCRINE DISRUPTING PROPERTIES

Contains no substance(s) known to have endocrine disrupting properties that affect human health.

11.2.2 OTHER INFORMATION

For the product itself:

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

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 sensitising in test animals. Graphite: May contain crystalline silica. Certain grades have produced lung tumours in animal studies and also exposed humans. Airborne exposure to high concentrations have resulted in pneumoconiosis in humans.



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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.

12.1. TOXICITY

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

12.2. PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

12.3. BIOACCUMULATIVE POTENTIAL

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

12.4. MOBILITY IN SOIL

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.

12.5. PERSISTENCE, BIOACCUMULATION AND TOXICITY FOR SUBSTANCE(S)

Material does not meet the Reach Annex XIII criteria for PBT or vPvB.

12.6. ENDOCRINE DISRUPTING PROPERTIES

Contains no substance(s) known to have endocrine disrupting properties that affect the environment.

12.7. OTHER ADVERSE EFFECTS

No adverse effects are expected.

SECTION 13

DISPOSAL CONSIDERATIONS

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.

13.1. WASTE TREATMENT METHODS

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.

European Waste Code: 12 01 12*

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

This material is considered as hazardous waste pursuant to The Hazardous Waste Regulations (HWR), and subject to the provisions of those Regulations.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue



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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 TR

TRANSPORT INFORMATION

LAND (ADR/RID): 14.1-14.6 Not Regulated for Land Transport

INLAND WATERWAYS (ADN): 14.1-14.6 Not Regulated for Inland Waterways Transport

SEA (IMDG): 14.1-14.6 Not Regulated for Sea Transport according to IMDG-Code

SEA (MARPOL 73/78 Convention - Annex II):

14.7. Maritime transport in bulk according to IMO instruments

Not classified according to Annex II

AIR (IATA): 14.1-14.6 Not Regulated for Air Transport

SECTION 15

REGULATORY INFORMATION

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

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

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Applicable EU Directives and Regulations:

1907/2006 [... on the Registration, Evaluation, Authorisation and Restriction of Chemicals ... and amendments thereto]

1272/2008 [on classification, labelling and packaging of substances and mixtures.. and amendments thereto]

REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII):

The following entries of Annex XVII may be considered for this product: None

15.2. CHEMICAL SAFETY ASSESSMENT



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REACH Information: A Chemical Safety Assessment has been carried out for one or more substances present in the

material.

SECTION 16 OTHER INFORMATION

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.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

AcronymFull textN/ANot applicableN/DNot determinedNENot established

VOC Volatile Organic Compound

AIIC Australian Inventory of Industrial Chemicals

AIHA WEEL American Industrial Hygiene Association Workplace Environmental Exposure Limits

ASTM International, originally known as the American Society for Testing and Materials (ASTM)

DSL Domestic Substance List (Canada)

EINECS European Inventory of Existing Commercial Substances

ELINCS European List of Notified Chemical Substances

ENCS Existing and new Chemical Substances (Japanese inventory)

IECSC Inventory of Existing Chemical Substances in China

KECI Korean Existing Chemicals Inventory
NDSL Non-Domestic Substances List (Canada)
NZIOC New Zealand Inventory of Chemicals

PICCS Philippine Inventory of Chemicals and Chemical Substances

TLV Threshold Limit Value (American Conference of Governmental Industrial Hygienists)

TSCA Toxic Substances Control Act (U.S. inventory)

UVCB Substances of Unknown or Variable composition, Complex reaction products or Biological materials

LC Lethal Concentration
LD Lethal Dose
LL Lethal Loading
EC Effective Concentration
EL Effective Loading

NOEC No Observable Effect Concentration
NOELR No Observable Effect Loading Rate

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

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

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

Acute Tox. 3 H311: Toxic in contact with skin; Acute Tox Dermal, Cat 3

Skin Corr. 1B H314: Causes severe skin burns and eye damage; Skin Corr/Irritation, Cat 1B

Skin Irrit. 2 H315: Causes skin irritation; Skin Corr/Irritation, Cat 2

Skin Sens. 1 H317: May cause allergic skin reaction; Skin Sensitization, Cat 1 Eve Dam. 1 H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1

Acute Tox. 2 H330: Fatal if inhaled: Acute Tox Inh. Cat 2

STOT SE 3 H335: May cause respiratory irritation; Target Organ Single, Resp Irr Repr. 2 H361d: Suspected of damaging the unborn child; Repro Tox, Cat 2 (Develop)

Repr. 2 H361f: Suspected of damaging fertility; Repro Tox, Cat 2 (Fertility)



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STOT RE 2 H373: May cause damage to organs through prolonged or repeated exposure; Target Organ, Repeated, Cat 2

Aquatic Acute 1 H400: Very toxic to aquatic life; Acute Env Tox, Cat 1 [Aquatic Acute 2 H401]: Toxic to aquatic life; Acute Env Tox, Cat 2

Aquatic Chronic 1 H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1 Aquatic Chronic 2 H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Composition: Component Table for REACH information was modified.

Composition: Concentration Footnote information was added. Section 02: GHS Sensitizer Statement information was added. Section 08: Exposure Limits Table information was modified. Section 09 median particle size information was added. Section 09: Freezing Point °C(°F) information was deleted.

Section 09: Freezing Point 'C('F) information was deleted.

Section 11 EU Annex II Endocrine Disruptor Data information was added.

Section 11 Substance Toxicology table information was added.

Section 12 EU Annex II Endocrine Disruptor Data information was added.

Section 13: European Waste Code Hazardous Note information was modified.

Section 16: HCode Key information was modified.

Section 2 EU Annex II Endocrine Disruptor Data information was added.

Section 9 melting and freezing points information was added.

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MHC: 0B, 0B, 0, 0, 0, 0 PPEC: C

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