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| SAFETY DATA SHEET | Print Date: 09/18/2019 |
| MaxLife™ MAXLIFE/MULTI-VEHICLE AFC DR 55 GA 719008 | MSDS Number: 000000156247 Version: 1.1 |

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MaxLife™ MAXLIFE/MULTI-VEHICLE AFC DR 55 GA

Product code : 719008

Company : Valvoline LLC
3499 Blazer Parkway
Lexington, KY 40509

United States of America

E-mail address : SDS@valvoline.com
Telephone : 1-800-TEAMVAL
Telefax :

Emergency telephone number : 1-800-VALVOLINE

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4
Reproductive toxicity : Category 1B
Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Kidney, Liver)

GHS-Labeling

Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H360FD May damage fertility. May damage the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical Name | CAS-No. | Concentration |
|--------------------------------|-----------|----------------|
| ETHYLENE GLYCOL | 107-21-1 | >=60 - <=100 % |
| DIETHYLENE GLYCOL | 111-46-6 | >=1 - <5 % |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | >=0.1 - <1 % |

4. FIRST AID MEASURES

General advice : Consult a physician.
Show this safety data sheet to the doctor in attendance.

First aid measures for different exposure routes

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Remove contact lenses.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.
If symptoms persist, call a physician.
In case of shortness of breath, give oxygen.

If swallowed : Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.
Consult a physician if necessary.

Most important symptoms and effects, both acute and : Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after

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delayed (new)

exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnea, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis. Ingestion or other significant exposure to this material (or a component) may cause metabolic acidosis.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)

Cough

central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects

pain in the abdomen and lower back

cyanosis (causes blue coloring of the skin and nails from lack of oxygen)

lung edema (fluid buildup in the lung tissue)

acute kidney failure (sudden slowing or stopping of urine production)

liver damage

Convulsions

coma

Notes to physician (new) :

This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body.

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Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol, diethylene glycol and methanol poisoning.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : ABC powder
Carbon dioxide (CO₂)
Dry chemical
Water mist
- Unsuitable extinguishing media : Halons
- Hazardous combustion products : Alcohols
Aldehydes
carbon dioxide and carbon monoxide
ethers
Hydrocarbons
toxic fumes
- Specific extinguishing methods : Keep containers and surroundings cool with water spray.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Large spills should be collected mechanically (remove by pumping) for disposal.
Keep in suitable, closed containers for disposal.
- Additional advice : Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

- Handling**
- Technical measures : Normal measures for preventive fire protection.

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Advice on safe handling : Do not breathe vapours or spray mist.
 For personal protection see section 8.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Avoid exceeding of the given occupational exposure limits (see section 8).
 Smoking, eating and drinking should be prohibited in the application area.

Avoidance of contact : Acids
 Aldehydes
 Alkali metals
 Alkaline earth metals
 aluminum
 Bases
 strong alkalis
 Strong oxidizing agents
 Sulphur compounds

Storage

Conditions for safe storage : Store in original container.
 Keep containers tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Acids, Aldehydes, Alkali metals, Alkaline earth metals, aluminum, Bases, strong alkalis, Strong oxidizing agents, Sulphur compounds

Other data : Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--------------------------------|-----------|---------------------------|--|--------|
| ETHYLENE GLYCOL | 107-21-1 | Ceiling (Aerosol.) | 100 mg/m3 | UY OEL |
| ETHYLENE GLYCOL | 107-21-1 | Ceiling (Aerosol.) | 100 mg/m3 | PY OEL |
| ETHYLENE GLYCOL | 107-21-1 | Ceiling (Aerosol.) | 100 mg/m3 | EC OEL |
| ETHYLENE GLYCOL | 107-21-1 | Ceiling (Aerosol.) | 100 mg/m3 | CR OEL |
| ETHYLENE GLYCOL | 107-21-1 | (Aerosol.) | | CR OEL |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | TWA (Inhalable fraction.) | 2 mg/m3 | UY OEL |
| DISODIUM TETRABORATE | 1330-43-4 | STEL | 6 mg/m3 | UY OEL |

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|--------------------------------|-----------|----------------------------|---------|--------|
| ANHYDROUS | | (Inhalable fraction.) | | |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | TWA (Inhalable fraction.) | 2 mg/m3 | PY OEL |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | STEL (Inhalable fraction.) | 6 mg/m3 | PY OEL |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | TWA (Inhalable fraction.) | 2 mg/m3 | EC OEL |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | STEL (Inhalable fraction.) | 6 mg/m3 | EC OEL |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | TWA (Inhalable fraction.) | 2 mg/m3 | CR OEL |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | STEL (Inhalable fraction.) | 6 mg/m3 | CR OEL |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | (Inhalable fraction.) | | CR OEL |

US. ACGIH Threshold Limit Values

| Components | CAS-No. | Value (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--------------------------------|-----------|----------------------------|--|-------|
| ETHYLENE GLYCOL | 107-21-1 | Ceiling (Aerosol.) | 100 mg/m3 | ACGIH |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | TWA (Inhalable fraction.) | 2 mg/m3 | ACGIH |
| DISODIUM TETRABORATE ANHYDROUS | 1330-43-4 | STEL (Inhalable fraction.) | 6 mg/m3 | ACGIH |

Engineering measures

: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Personal protective equipment
Respiratory protection

: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Respiratory protection is not required under normal conditions of use.

Eye protection

: Safety glasses with side-shields

Hand protection

: Wear resistant gloves such as:

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Material : butyl-rubber
Nitrile rubber

Skin and body protection : Wear as appropriate:
Safety shoes

Hygiene measures : Keep away from food, drink and animal feedingstuffs.
When using do not eat, drink or smoke.
Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : yellow

Odour : No data available

pH : No data available

Freezing point : No data available

Boiling point : 100 °C (1,013.333333 hPa)
Calculated Phase Transition Liquid/Gas

Flash point : > 121 °C Method: Closed Cup

Upper explosion limit : 15.3 %(V)
GLP: Calculated Explosive Limit

Lower explosion limit : 3.2 %(V)
GLP: Calculated Explosive Limit

Vapour pressure : 23.3333333 hPa (20 °C)
Calculated Vapor Pressure

Density : 1.1202 g/cm³ (15.6 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Thermal decomposition : No data available

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10. STABILITY AND REACTIVITY

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|------------------------------------|---|
| Possibility of hazardous reactions | : No hazards to be specially mentioned. Hazardous polymerisation does not occur. |
| Conditions to avoid | : Heat, flames and sparks. Exposure to moisture. |
| Incompatible materials | : Acids Aldehydes Alkali metals Alkaline earth metals aluminum Bases strong alkalis Strong oxidizing agents Sulphur compounds |
| Hazardous decomposition products | : Alcohols Aldehydes carbon dioxide and carbon monoxide ethers Hydrocarbons Organic acids ketones |

11. TOXICOLOGICAL INFORMATION

Product

| | |
|-----------------------------------|---------------------|
| Acute oral toxicity | : No data available |
| Acute inhalation toxicity | : No data available |
| Acute dermal toxicity | : No data available |
| Skin corrosion/irritation | : No data available |
| Serious eye damage/eye irritation | : No data available |
| Respiratory or skin sensitisation | : No data available |

Components:

ETHYLENE GLYCOL:

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Acute oral toxicity : LD 50 Rat: 6,140 mg/kg
 LD50 Human: Estimated 1.56 g/kg
 The component/mixture is classified as acute oral toxicity, category 4.

Acute dermal toxicity : LD 50 Rabbit: 9,530 mg/kg

STOT - repeated exposure : Exposure routes: Ingestion
 Target Organs: Kidney, Liver
 Assessment: May cause damage to organs through prolonged or repeated exposure.

DIETHYLENE GLYCOL:

Acute oral toxicity : LD50 Human: Expected 1,120 mg/kg
 Target Organs: Kidney

Acute inhalation toxicity : LC50 rat: > 4.6 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD 50 Rabbit: 13,300 mg/kg

Respiratory or skin sensitisation : Test Method: Maximisation Test (GPMT)
 Species: guinea pig
 Result: Did not cause sensitisation on laboratory animals.
 Method: Directive 67/548/EEC, Annex V, B.6.

Germ cell mutagenicity

Genotoxicity in vitro : Type: Ames test
 with and without metabolic activation
 Result: negative
 Method: OECD Test Guideline 471
 GLP: yes

: Test species: Chinese hamster ovary cells
 with and without metabolic activation
 Result: negative
 Method: OECD Test Guideline 479
 GLP: yes

Genotoxicity in vivo : Type: In vivo micronucleus test
 Test species: mouse
 Method: OECD Test Guideline 474
 GLP: yes
 Result: negative

STOT - repeated exposure : Exposure routes: Ingestion
 Target Organs: Kidney

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Assessment: May cause damage to organs through prolonged or repeated exposure.

Experience with human exposure : Liver

DISODIUM TETRABORATE ANHYDROUS:

Acute dermal toxicity : LD 50 Rabbit: > 1,055 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

No data available

Components:

ETHYLENE GLYCOL:

Toxicity to fish : LC 50 (Bluegill (*Lepomis macrochirus*)): 27,540 mg/l
 Exposure time: 96 h
 Method: Static
 Mortality

LC 50 (Fathead minnow (*Pimephales promelas*)): 8,050 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (*Daphnia magna*)): > 10,000 mg/l
 Exposure time: 48 h
 Test Method: static test

DIETHYLENE GLYCOL:

Toxicity to fish : LC 50 (Fathead minnow (*Pimephales promelas*)): 75,210 mg/l
 Exposure time: 96 h
 Test Method: flow-through test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (*Daphnia magna*)): > 10,000 mg/l
 Exposure time: 24 h
 Test Method: static test
 Method: DIN 38412

Persistence and degradability

Product:

No data available

Components:

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DIETHYLENE GLYCOL:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 70 - 80 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301B

Bioaccumulative potential

Product:

No data available

Components:

ETHYLENE GLYCOL:

Bioaccumulation : Species: Crayfish (Procambarus)
 Exposure time: 61 d
 Concentration: 1000 mg/l
 Bioconcentration factor (BCF): 0.27
 Method: Flow through

Partition coefficient: n-octanol/water : log Pow: -1.36

DIETHYLENE GLYCOL:

Bioaccumulation : Species: Leuciscus idus (Golden orfe)
 Bioconcentration factor (BCF): 100

Partition coefficient: n-octanol/water : log Pow: -1.47

Mobility in soil

Product:

No data available

Components:

ETHYLENE GLYCOL:

Surface tension : 48.4 mN/m

DIETHYLENE GLYCOL:

Surface tension : 48.5 mN/m

Other adverse effects

Product:

Ozone-Depletion Potential : No data available

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Components:

No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with the European Directives on waste and hazardous waste.

Do not contaminate ponds, waterways or ditches with chemical or used container.
Container hazardous when empty.
Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

International transport regulations

REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
| | | | | | |

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

| |
|---------------------|
| Not dangerous goods |
|---------------------|

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

| |
|---------------------|
| Not dangerous goods |
|---------------------|

INTERNATIONAL MARITIME DANGEROUS GOODS

| |
|---------------------|
| Not dangerous goods |
|---------------------|

UN_DG

| |
|---------------------|
| Not dangerous goods |
|---------------------|

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

| | |
|------------------|----|
| Marine pollutant | no |
|------------------|----|

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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

Other international regulations

Notification status

| | |
|---|------------------------|
| US. Toxic Substances Control Act | : y (positive listing) |
| Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) | : y (positive listing) |
| Australia. Industrial Chemical (Notification and Assessment) Act | : y (positive listing) |
| New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand | : n (Negative listing) |
| Japan. Kashin-Hou Law List | : n (Negative listing) |
| Korea. Toxic Chemical Control Law (TCCL) List | : n (Negative listing) |
| Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act | : n (Negative listing) |
| China. Inventory of Existing Chemical Substances | : y (positive listing) |

16. OTHER INFORMATION

Further information

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Valvoline's Environmental Health and Safety Department.

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

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

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IMDG : International Maritime Code for Dangerous Goods
 ISO : International Organization for Standardization
 logPow : octanol-water partition coefficient
 LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
 DOT : Department of Transportation
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
 HMIRC : Hazardous Materials Information Review Commission
 HMIS : Hazardous Materials Identification System
 NFPA : National Fire Protection Association
 NIOSH : National Institute for Occupational Safety and Health
 OSHA : Occupational Safety and Health Administration
 PMRA : Health Canada Pest Management Regulatory Agency
 RTK : Right to Know
 WHMIS : Workplace Hazardous Materials Information System