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GHS classification in accordance with the Hazardous Products Regulations **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product identifier

Trade name

MaxLife™ DEX/MERC

Automatic Transmission Fluid

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

: Lubricant

| Details of the supplier of the safety data sheet | Emergency telephone number 1-800-VALVOLINE (1-800-825-8654) |
|---|--|
| Valvoline Canada Corp 905 Winston Churchill Blvd Mississauga ON L5J 4P2 Canada 1-800-TEAMVAL (1-800-832-6825) | Regulatory Information Number 1-800-TEAMVAL (1-800-832-6825) Product Information |
| | 1-800-TEAMVAL (1-800-832-6825) |
| SDS@valvoline.com | 1 - 5 km al |

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous components

| Chemical name | CAS-No. | Classification | Concentration (%) |
|---|------------|-------------------|-------------------|
| Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil- | 72623-87-1 | Asp. Tox. 1; H304 | >=70.00 - < 90.00 |
| Based HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | Asp. Tox. 1; H304 | >=1.00 - < 5.00 |

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| DODECYL HYDROXYPROPYL SULFIDE | 67124-09-8 | Skin Sens. 1; H317 | >=0.10 - < 1.00 |
|----------------------------------|------------|--------------------|-----------------|
| | | | |

SECTION 4. FIRST AID MEASURES

General advice

: No hazards which require special first aid measures.

If inhaled

: If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact

First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

In case of eye contact

Remove contact lenses.

Protect unharmed eye.

If swallowed

: Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: No symptoms known or expected.

Notes to physician

: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: carbon dioxide and carbon monoxide

Hydrocarbons

Specific extinguishing

:

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methods

Product is compatible with standard fire-fighting agents.

Further information

: Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 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 product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information

: Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Conditions for safe storage

: Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Materials to avoid

: No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type | Control | Basis |
|------------|---------|------------|--------------|-------|
| | | (Form of | parameters / | |
| | | exposure) | Permissible | |

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| | | | concentration | |
|--|------------|-------|------------------------|-----------|
| Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based | 72623-87-1 | TWA | 5 mg/m3 Mist | CA AB OEL |
| | | STEL | 10 mg/m3 Mist | CA AB OEL |
| | | TWAEV | 5 mg/m3 Mist | CA QC OEL |
| | | STEV | 10 mg/m3 Mist | CA QC OEL |
| | | TWA | 1 mg/m3 Mist | CA BC OEL |
| | | PEL | 5 mg/m3 particulate | CAL PEL |
| HYDROTREATED LIGHT PARAFFINIC DISTILLATE | 64742-55-8 | TWA | 5 mg/m3 Mist | CA AB OEL |
| | | STEL | 10 mg/m3 Mist | CA AB OEL |
| | | TWAEV | 5 mg/m3 Mist | CA QC OEL |
| | | STEV | 10 mg/m3 Mist | CA QC OEL |
| | | TWA | 1 mg/m3 Mist | CA BC OEL |

Engineering measures

: General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection

Respiratory protection is not required under normal conditions

of use.

No personal respiratory protective equipment normally

required.

Eye protection

Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

into eyes.

Skin and body protection

Wear resistant gloves (consult your safety equipment

supplier).

Wear as appropriate:

Safety shoes

Hygiene measures

General industrial hygiene practice.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Colour

red

Odour

mild

Odour Threshold

No data available

рΗ

No data available

Melting point/freezing point

No data available

Boiling point/boiling range

: > 218 °C

(1013 hPa)

Flash point

: 201 - 249 °C

Method: Cleveland open cup

Evaporation rate

< 1

Ethyl Ether

Flammability (solid, gas)

Self-ignition

No data available

Upper explosion limit / Upper : flammability limit

No data available

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure

1 hPa

Calculated Vapor Pressure

Relative vapour density

> 1

AIR=1

Relative density

No data available

Density

0.8518 g/cm3 (15.56 °C)

Solubility(ies)

Water solubility

No data available

Solubility in other solvents

: No data available

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Partition coefficient: n-

octanol/water

No data available

Decomposition temperature

No data available

Viscosity

Viscosity, dynamic

No data available

Viscosity, kinematic

28.8 mm2/s (40 °C)

Oxidizing properties

No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid

: excessive heat

Incompatible materials

: alkalis

Strong acids

Strong oxidizing agents

Hazardous decomposition

products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

Skin contact

Eye Contact

Ingestion

Acute toxicity

Not classified based on available information.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity

787

LC50 (Rat): > 5.58 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

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Assessment: Not classified as acutely toxic by inhalation

under GHS.

Remarks: No mortality observed at this dose.

Acute dermal toxicity

LD50 (Rabbit): > 5,000 mg/kg

Remarks: No mortality observed at this dose.

DODECYL HYDROXYPROPYL SULFIDE:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

GLP: yes

Acute dermal toxicity

: LD50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

Skin corrosion/irritation

Not classified based on available information.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Species

: Rabbit

Result

: No skin irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Assessment

: Slight, transient irritation

Result

: Slight, transient irritation

DODECYL HYDROXYPROPYL SULFIDE:

Species

: Rabbit

Result

: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result

: Slight, transient irritation

Remarks

Expected based on components.

Remarks

rtorriarite

: Unlikely to cause eye irritation or injury.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Species

Rabbit

Result

: No eye irritation

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Result

Slight, transient irritationSlight, transient irritation

Assessment

3

DODECYL HYDROXYPROPYL SULFIDE:

Species

Rabbit

Result

No eye irritation

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Test Type Species

: Buehler Test Guinea pig

Assessment

Does not cause skin sensitisation.

DODECYL HYDROXYPROPYL SULFIDE:

Test Type

: Local lymph node assay

Species

Guinea pig

Assessment

May cause sensitisation by skin contact.

Method

OECD Test Guideline 429

Germ cell mutagenicity

Not classified based on available information.

Components:

DODECYL HYDROXYPROPYL SULFIDE:

Genotoxicity in vitro

: Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Carcinogenicity -

: Classified based on DMSO extract content < 3% (Regulation

Assessment

(EC) 1272/2008, Annex VI, Part 3, Note L)

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Carcinogenicity - : Classified based on DMSO extract content < 3% (Regulation

Assessment

(EC) 1272/2008, Annex VI, Part 3, Note L)

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

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Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

May be fatal if swallowed and enters airways.

HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

: Acute aquatic toxicity Category 3; Harmful to aquatic life.

Long-term (chronic) aquatic

hazard

: Chronic aquatic toxicity Category 3; Harmful to aquatic life

with long lasting effects.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Toxicity to fish

: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 203

Remarks: No toxicity at the limit of solubility

aquatic invertebrates

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 202

Toxicity to algae

: NOEL (Pseudokirchneriella subcapitata (green algae)): >=

100 mg/l

End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOELR (Oncorhynchus mykiss (rainbow trout)): >= 1,000 mg/l

Exposure time: 14 d

Toxicity to daphnia and other

: NOEL (Daphnia (water flea)): 10 mg/l

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aquatic invertebrates

(Chronic toxicity)

Exposure time: 21 d Test substance: WAF

Method: OECD Test Guideline 211

DODECYL HYDROXYPROPYL SULFIDE:

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.75 mg/l

Exposure time: 96 h
Test Type: semi-static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): 0.58 mg/l

Exposure time: 48 h Test Type: static test Test substance: WAF

Toxicity to algae

: EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 96 h Test Type: static test Test substance: WAF

M-Factor (Short-term (acute)

aquatic hazard)

: 1

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEL (Daphnia magna (Water flea)): 0.32 mg/l

Exposure time: 21 d
Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

M-Factor (Long-term (chronic) aquatic hazard)

: 1

Persistence and degradability

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:

Biodegradability

: Result: Not readily biodegradable.

Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

DODECYL HYDROXYPROPYL SULFIDE:

Biodegradability

: Result: Not readily biodegradable.

Biodegradation: 5 % Exposure time: 28 d

Method: OECD Test Guideline 301F

No data available

Bioaccumulative potential

Components:

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DODECYL HYDROXYPROPYL SULFIDE:

Partition coefficient: n-

: log Pow: 4.7 - 6.5

octanol/water

No data available **Mobility in soil Components:**

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

 An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life

with long lasting effects.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice

: Dispose of in accordance with all applicable local, state and

federal regulations.

The product should not be allowed to enter drains, water

courses or the soil.

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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG

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Not regulated as a dangerous good

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.

SECTION 15. REGULATORY INFORMATION

| The components | of this product | are reported in the | following inventories: |
|----------------|-----------------|---------------------|------------------------|
| | | | |

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

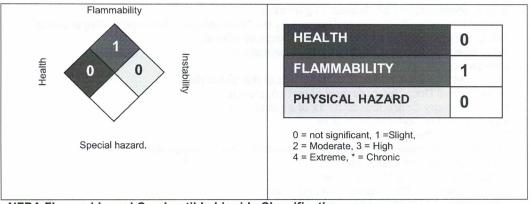
SECTION 16. OTHER INFORMATION

Further information

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| NFPA: | HMIS III: |
|-------|-----------|
| | |

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NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

Full text of H-Statements

H304

May be fatal if swallowed and enters airways.

H317

May cause an allergic skin reaction.

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

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).

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ICAO: International Civil Aviation Organization

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

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

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