

SDS #: 082939 FLUIDMATIC MV

Issuing date: 2015-06-30 Revision Date: 2019-06-07 Version 1.04

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name FLUIDMATIC MV

Number 8SH Substance/mixture Mixture

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

**Identified uses** Automatic transmission fluids.

1.3. Details of the supplier of the safety data sheet

Supplier TOTAL OIL ASIA PACIFIC PTE LTD

182 Cecil Street #27-01 Frasers Tower Singapore 069547 Tel: +65 6879 2200 Fax: +65 6879 2203

See section 16 for additional information

For further information, please contact:

Contact Point HSE

E-mail Address ms.ap-sds@total.com

1.4. Emergency telephone number

Asia-Pacific: +65 3158 1074 Philippines: +65 3158 1203

## 2. HAZARDS IDENTIFICATION

# Classification of the substance or mixture

Classification Not Classified

## Label elements

Signal word None

**Hazard Statements** 

None



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# Other hazards which do not result in classification

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**Environmental properties**The product may form an oil film on the water surface that may stop the oxygen exchange.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature Mineral oil of petroleum origin

Chemical Name	CAS-No	EC-No	Weight %
Distillates (petroleum), hydrotreated	64742-54-7	265-157-1	40-<50
heavy paraffinic			
4,4'-thiodiethylene	93882-40-7	299-434-3	0.1-<0.25
hydrogen-2-octadecenylsuccinate			

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

# 4. FIRST AID MEASURES

#### 4.1. Description of first-aid measures

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may

cause skin damage. Take victim immediately to hospital.

**Inhalation** Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, give artificial respiration.

Ingestion Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician or Poison Control Center immediately.

Protection of First-aiders First aider needs to protect himself. See Section 8 for more detail. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

# 4.2. Most important symptoms and effects, both acute and delayed



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Skin contact Not classified based on available data. High pressure injection of the products under the

skin may have very serious consequences even though no symptom or injury may be

apparent. May produce an allergic reaction.

**Eye contact** Not classified based on available data.

**Inhalation** Not classified based on available data. Inhalation of vapors in high concentration may

cause irritation of respiratory system.

Ingestion Not classified based on available data. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable Extinguishing Media Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.

**Unsuitable Extinguishing Media**Do not use a solid water stream as it may scatter and spread fire.

# 5.2. Special hazards arising from the substance or mixture

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Combustion

products include sulphur oxides ( SO2 and SO3 ) and Hydrogen sulphide H2S, Phosphorous oxides, Nitrogen oxides (NOx), Mercaptans.

#### 5.3. Advice for fire-fighters

Special protective equipment for

fire-fighters

Wear self-contained breathing apparatus and protective suit.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing

water must be disposed of in accordance with local regulations.

# 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely

slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition.



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# 6.2. Environmental precautions

**General Information** Do not allow material to contaminate ground water system. Prevent entry into waterways,

sewers, basements or confined areas. Local authorities should be advised if significant

spillages cannot be contained.

Methods and material for containment and cleaning up

**Methods for containment** Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or

similar non-combustible materials.

Methods for cleaning up Dispose of contents/container in accordance with local regulation. In case of soil

contamination, remove contaminated soil for remediation or disposal, in accordance with

local regulations.

6.4. Reference to other sections

**Personal Protective Equipment** See Section 8 for more detail.

See section 13. Waste treatment

#### 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Advice on safe handling For personal protection see section 8. Use only in well-ventilated areas. Do not breathe

vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of

> contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product

contaminated rags into workwear pockets.

### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures/Storage** 

conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Store at room temperature. Protect from moisture.

**Materials to Avoid** Strong oxidizing agents.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

**Exposure limits** Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH

(TLV) TWA 5 mg/m³ (highly refined).

**Legend** See section 16

#### 8.2. Exposure controls

#### **Appropriate engineering controls**

**Engineering Measures** Apply technical measures to comply with the occupational exposure limits. Ensure

adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the

recommended equipment.

**Personal Protective Equipment** 

**General Information** Protective engineering solutions should be implemented and in use before personal

protective equipment is considered. The personal protective equipment (PPE)

recommendations apply to the product ITSELF. In case of mixtures or formulations, it is

suggested that you contact the relevant PPE suppliers.

**Respiratory protection**None under normal use conditions. When workers are facing concentrations above the

exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387): Type A/P1. Warning! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's

instructions and the regulations governing their choices and uses.

**Eye Protection** If splashes are likely to occur, wear:. Safety glasses with side-shields. EN 166.

**Skin and body protection** Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Type

4/6.

**Hand Protection** Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact

with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the

glove, its technical characteristics, its resistance to the chemicals to be handled, the



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appropriateness of its use and its replacement frequency. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

#### **Environmental exposure controls**

**General Information** The product should not be allowed to enter drains, water courses or the soil.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### **General Information**

AppearancelimpidColorredPhysical State @20°Cliquid

**Odor** Characteristic

Odor Threshold No information available

# Important health safety and environmental information

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH Melting point/range		Not applicable Not applicable	
Boiling point/boiling range		No information available	
Flash point	<b>234 °C</b> 453 °F		ASTM D92 ASTM D92.
Evaporation rate Flammability Limits in Air		No information available	
upper Lower Vapor Pressure Vapor density Relative density Density Water solubility Solubility in other solvents logPow	0.847 847 kg/m³	No information available No information available No information available No information available @ 15 °C @ 15 °C Insoluble No information available No information available	ASTM D4052 ASTM D4052
Autoignition temperature Decomposition temperature Viscosity, kinematic	37.44 mm2/s	No information available No information available @ 40 °C	ASTM D445



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**Explosive properties**Oxidizing Properties
Not explosive
Not applicable

Possibility of hazardous reactions None under normal processing

Other information

Freezing Point No information available

## 10. STABILITY AND REACTIVITY

10.1. Reactivity

General Information None under normal processing.

10.2. Chemical stability

**Stability** Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat

and sparks.

10.5. Incompatible materials

Materials to Avoid Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Combustion products include sulphur oxides ( SO2 and SO3 ) and Hydrogen sulphide H2S,

Phosphorous oxides, Nitrogen oxides (NOx), Mercaptans.

# 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure



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**Inhalation** Not classified based on available data. Inhalation of vapors in high concentration may

cause irritation of respiratory system.

**Ingestion** Not classified based on available data. Ingestion may cause gastrointestinal irritation,

nausea, vomiting and diarrhea.

**Skin contact**Not classified based on available data. High pressure injection of the products under the

skin may have very serious consequences even though no symptom or injury may be

apparent. May produce an allergic reaction.

**Eye contact** Not classified based on available data.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure\_

**Acute toxicity - Product Information** 

Oral Not classified based on available data.

**Dermal** Not classified based on available data.

**Inhalation** Not classified based on available data.

ATEmix (inhalation-dust/mist) 149.50 mg/l

**Acute toxicity - Component Information** 

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated	LD50 > 5000 mg/kg bw (rat - OECD	LD50 > 5000 mg/kg bw (rabbit -	LC50 (4h) > 5 mg/l (aerosol) (rat -
heavy paraffinic	420)	OECD 402)	OECD 403)
64742-54-7			
4,4'-thiodiethylene	LD50 >10000 mg/kg (rat)		
hydrogen-2-octadecenylsuccinate			
93882-40-7			

**Skin corrosion/irritation**Not classified based on available data.

Serious eye damage/eye irritation Not classified based on available data.

Sensitization Not classified based on available data. Contains sensitizer(s). May produce an allergic

reaction.

Germ Cell Mutagenicity Not classified based on available data.

Carcinogenicity Not classified based on available data.



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**Reproductive toxicity** Not classified based on available data.

Target Organ Effects (STOT) None known.

**STOT - single exposure** Not classified based on available data.

**STOT - repeated exposure**Not classified based on available data.

Aspiration hazard Not classified based on available data.

Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated

exposures (contact with contaminated clothing).

# 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Not classified based on available data.

#### Acute aquatic toxicity - Product Information

No information available.

# Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates		microorganisms
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	EL50 (48h) > 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	
4,4'-thiodiethylene hydrogen-2-octadecenylsucc inate 93882-40-7			LC50(96h) >0.17 mg/l (OECD guideline 203)	

### Chronic aquatic toxicity - Product Information

No information available.

#### Chronic aquatic toxicity - Component Information

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Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum),		NOEL (21d) 10 mg/l	NOEL (14/28d) > 1000 mg/l	
hydrotreated heavy		(Daphnia magna - QSAR	(Oncorhynchus mykiss -	
paraffinic		Petrotox)	QSAR Petrotox)	
64742-54-7		<u>'</u>	,	

#### Effects on terrestrial organisms

No information available.

### 12.2. Persistence and degradability

**General Information** No information available.

## 12.3. Bioaccumulative potential

**Product Information** No information available.

logPow No information available

Component Information . . .

- 3	Component information .			
ſ	Chemical Name	log Pow		
Ī	Distillates (petroleum), hydrotreated heavy paraffinic - 64742-54-7	-		

# 12.4. Mobility in soil

Soil Given its physical and chemical characteristics, the product generally shows low soil

mobility.

Air Loss by evaporation is limited.

Water The product is insoluble and floats on water.

# 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment**No information available.

#### 12.6. Other adverse effects

**General Information** No information available.

# 13. DISPOSAL CONSIDERATIONS

## 13.1. Waste treatment methods



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Waste Disposal Methods Should not be released into the environment. Do not empty into drains. Dispose of in

accordance with all applicable national environmental laws and regulations. Where possible

recycling is preferred to disposal or incineration.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or

disposal.

**Disposal Precautions** Refer to section 8 for safety and protective measures for disposal personnel.

### 14. TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

#### 15. REGULATORY INFORMATION

International Inventories All the substances contained in this product are listed or exempted from listing in the

following inventories: China (IECSC)

New Zealand (NZIoC)
Canada (DSL/NDSL)
Korea (KECL)
Philippines (PICCS)
Australia (AICS)

Europe (EINECS/ELINCS/NLP)

Japan (ENCS) U.S.A. (TSCA)

## National regulatory information

#### <u>Singapore</u>

This Safety Data Sheet (SDS) has been prepared according to Singapore Standard SS 586 on "Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods"

Applicable National Regulation:

Workplace Safety and Health (General Provision) Regulations

#### <u>Philippines</u>

This Safety Data Sheet (SDS) has been prepared according to EMB Memorandum Circular on "Guidance Manual for Department Administrative Order 2015-09, Rules and Procedures for the Implementation of GHS in Preparation of SDS and Labelling Requirements of Toxic Chemical Substances"



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### **Priority Chemical List**

Not regulated

#### **Chemical Control Order**

Not regulated

### 16. OTHER INFORMATION

#### Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

#### Legend Section 8

OEL = Occupational Exposure Limit

TWA: Time Weight Average STEL: Short Time Exposure Limit PEL: Permissible exposure limit REL: Recommended exposure limit

TLV: Threshold Limit Values

Sensitizer \* Skin designation

Hazard Designation C: Carcinogen

M: Mutagen R: Toxic to reproduction

Revision Date: 2019-06-07

**Revision Note**\*\*\* Indicates updated section.

#### Additional details on the supplier of the product



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PHILIPPINES Supplier Total (Philippines) Corporation

7th Floor, 11th Corporate Center 11th Avenue, corner Triangle Drive, North Bonifacio, Bonifacio Global City

1634 Taguig City Philippines

Tel: +63 2 8490888 Fax: +63 2 8490889

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

**End of the Safety Data Sheet**