



SAFETY DATA SHEET

MSDS: A4147-0527E51EEN

Date Prepared: 2016/05/27

Date Revised:

Product Name: AISIN ATF-MSV Formulated for Matic S and Merc V Applications

1. Identification of the substance/mixture and of the company/undertaking

Product Name: AISIN ATF-MSV Formulated for Matic S and Merc V Applications
 Identification of the supplier: Aisin World Corp of America
 Address: 24330 Garnier Street, Torrance, CA 90505 (TEL:+1-800-822-2726)
 Charge section: Emergency Phone Number - Chemtrec (TEL:+1-800-424-9300)

2. Hazards identification

hazard category	Category
Flammable liquids	No Classification
Acute toxicity (oral)	No Classification
Acute toxicity (dermal)	No Classification
Specific target organ systemic toxicity following single exposure	No Classification
Specific target organ systemic toxicity following repeated exposure	No Classification
Aspiration hazard	No Classification
Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

LABEL ELEMENTS

Precautionary pictograms: Not applicable
 Signal word: Not applicable
 Hazard Statement: Harmful to aquatic life
 Harmful to aquatic life with long lasting effects

Precautionary Statements:

Prevention Do not handle until all safety precautions have been read and understood.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Do not allow the eyes to become exposed to the product. Do not swallow the product.
 Avoid release to the environment.
 Wash hands thoroughly after handling.

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.

IF ON SKIN: Wash with plenty of soap and water.



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Storage The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight. Containers that have been opened must be tightly sealed.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations. If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.

3. Composition/information on ingredients

Substance/Mixture: Mixture

Ingredients and Concentration

Ingredient Name	Concentrationwt. %
Base Oil(s)	80-90
Additives	<20

4. First-aid measures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a covered area. Cover the body with blankets to keep warm and quiet. If you feel unwell, seek medical advice.

Skin Contact: Immediately flush skin with large amounts of water.

Wash contaminated clothing before reuse.

If skin irritation occurs: Get medical advice/attention.

Eye Contact: Rinse with clean water carefully for several minutes. Remove

Ingestion: Do not induce vomiting. Drink water. Call a physician or poison control center immediately.

5. Fire-fighting measures

Suitable Extinguishing Media: Mist of loaded liquid, dry chemicals, carbon dioxide, fire foam,
Extinguishing Media to Avoid: Use of straight stream of water can cause a risk of spreading fire.



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Specific hazards arising from the chemical:	In some cases of fire, may release irritant gases. When burnt, may generate carbon monoxide and other toxic gases.
Fire Fighting:	Spray water to the surrounding facilities for cooling.
Special protective equipment and	Keep unauthorized persons off the site of occurrence of fire and the surroundings. Even after extinction, cool containers thoroughly with plenty of Wear fire/flare resistant/retardant clothing. Fight fire from windward direction while wearing protective Use air-breathing apparatus and protective clothing whenever

6. Accidental release measures

Personal precautions, protective	Wear protective equipment when working. Remove nearby potential ignition sources immediately.
	When mist is generated, use respiratory equipment to prevent inhalation of mist.
	Do not touch or walk through spillage.
	Pay attention to the site of spillage, which is slippery.
Environmental precautions:	Prevent spreading of oil spill with earth and sand, sandbags, or other proper materials and use care not to allow the oil spill to flow to street drains, sewer systems, and rivers. At sea, install oil spill containment booms to prevent spreading of spills and absorb with absorption mat or other proper materials.
Methods and materials for	In case of spillage in small quantity, collect spillage by
Prevention of second accident:	In case of spillage in large quantity, enclose with embankment to In case of spillage, immediately inform the organizations Remove nearby potential ignition sources immediately and make

7. Handling and storage



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Handling

Technical Measures: Keep away from any possible contact with sparks, open flames, and high-temperature materials, and do not allow release of vapor. Use pumps or other proper equipment for taking out from containers. Do not siphon with your mouth using a tube. Do not breathe vapors. When mist is generated, use respiratory equipment to prevent inhalation. In case of vapor/mist dispersion, install a closed system, local exhaust ventilation, or other adequate ventilation. Avoid rough handling of containers such as falling, dropping, exposing to shock, and dragging.

Ventilation requirements: Maintain adequate ventilation when handling indoors.

Precautions: Wash hands and face thoroughly after handling. Be careful with fire.

Precautions for safe handling: Avoid falling, dropping, exposing to shock, or dragging of containers. Wear protective gloves when opening containers to eliminate a

Storage

Storage Conditions: Store in a well ventilated, cool, dry, dark place, protecting from moisture. Store tightly stopped after use to prevent possible contamination. Preferably store locked up in a proper storage area.

Safety adequate: Use spill-proof containers that are free of damage/corrosion.

8. Exposure controls/personal protection

Appropriate engineering controls: In case of mist generation, enclose the source of mist generation, or install a ventilation system.

Install eye cleaning and body cleaning equipment near the handling site.



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Control parameters

Ingredient Name	Japan Society for Occupational Health	ACGIH	
	Occupational Exposure Limits	TLV-STEL	TLV-TWA
Base Oil(s)	None established ppm, 3 mg/m ³ (Mist)	None established ppm, None established mg/m ³	None established ppm, 5 mg/m ³ (Mist)

Personal Protective Equipment

Respiratory Protection: Not needed under normal conditions, but wear a gas mask (against
 Hand protection: In case of prolonged or repeated exposure, wear oil-resistant
 Eye/face protection: In case of exposure to splashes, wear ordinary type goggles.
 Skin Protection: In case of handling over a prolonged period of time or in case of
 Hygiene Measures: Take off contaminated clothing and wash thoroughly before reuse.
 Wash hands thoroughly after handling.

9. Physical and chemical properties

Product

Physical state: Liquid
 Form: Liquid
 Color: Red
 Odor: Slight odor
 Melting point/freezing point: Pour Point-46(°C)
 Initial boiling point: Initial boiling point - End point No data



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Flash point:	218(°C)Cleveland Open Cup
Auto-ignition	Estimate200–410(°C)
Upper/lower flammability or explosive limits:	Explosion Limit (1-7%)
Vapour density:	No data.
Density(g/cm3):	0.850(15°C)
Solubility:	water : Insoluble.
Partition coefficient: n-	No data.
Decomposition	No data.
Kinematic Viscosity	>20.5(mm2/sec) (40°C)

10. Stability and reactivity

Chemical stability:	Stable when stored or preserved in a dark place at room temperature.
Possibility of hazardous reactions:	Keep away from any possible contact with strong oxidizing agents.
Conditions to avoid:	Contact with incompatible hazard substances Prolonged heating, open flames, and ignition sources
Incompatible materials:	Use care to keep away from any possible contact with halogens, strong
Hazardous decomposition	When burnt, may release carbon monoxide and other gases.

11. Toxicological information

Product

Acute toxicity (oral):	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Acute toxicity (dermal):	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Acute toxicity (inhalation):	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Skin corrosion/irritation:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Serious eye damage/irritation:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Respiratory sensitization:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Skin sensitization:	For mixtures, hazard category was identified based on the classification criteria for mixtures.



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Mutagenicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Carcinogenicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Reproductive toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Target organ effect/Single	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Target organ effect/Multi	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Respiratory toxic:	For mixtures, hazard category was identified based on the classification criteria for mixtures.

Ingredient
Base Oil(s)

Acute toxicity (oral):	LD50: \geq 5000 mg/kg[rat]
Acute toxicity (dermal):	LD50: \geq 5000 mg/kg[rat]
Serious eye damage/irritation:	Practically None
Skin sensitization:	None Buehler method [guinea pig]
Mutagenicity:	Ames Test:Negative
Carcinogenicity:	EU:Category 2 : R45 need not apply. (NOTE L is

12. Ecological information

Product

Ecotoxicity

Fish acute toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Algae acute toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Fish chronic toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.
Algae chronic toxicity:	For mixtures, hazard category was identified based on the classification criteria for mixtures.

Ingredient
Base Oil(s)

Ecotoxicity

Fish acute toxicity:	96hLC50: > 5000 mg/L[Oncorhynchus mykiss]
Daphnia acute toxicity:	48hEC50: > 1000 mg/L[Daphnia magna]

13. Disposal considerations

Disposal Dispose of contents/container in accordance with local/regional/national/international



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Every customer/user of the product should dispose of industrial waste on its own
Before disposal of used container, remove contents completely.

14. Transport information

IMDG UN classification : Not applicable
Specific security precaution and Transport containers without causing any significant friction or

15. Regulatory information

Korea(KECL) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.

Australia(AICS) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.

Canada(DSL) : All components are listed or exempted.

China(IECSC) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.

EU(REACH) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.

New Zealand(NZIoC) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.

USA(TSCA) : All components are listed or exempted.

Philippines(PICCS) : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.

Taiwan : In the case where one or more components are not listed or, even if listed, in the case of importing to the country or area concerned, an application or notification is required.

16. Other information



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AISIN GROUP

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