

MSDS: A4152-0527E51EEN Date Prepared: 2016/05/27 Date Revised:

Product Name:

AISIN ATF-DW1 Formulated for DW-1 Applications

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

Product Name:AISIN ATF-DW1 Formulated for DW-1 ApplicationsIdentification of the
supplier:Aisin World Corp of AmericaAddress: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 Flammable liquids Acute toxicity (oral) Acute toxicity (dermal) Aspiration hazard Acute hazards to the aq Chronic hazards to the		Category No Classification No Classification No Classification Category 3 Category 3
Respons Storag	s: n Do not handle unti- understood. Wear protective gl protection. Do not allow the e swallow the produc Avoid release to t Wash hands thoroug Do no eat, drink o e IF SWALLOWED: Imme doctor/physician. IF SWALLOWED: rins If the eyes are ex- plenty of running IF ON SKIN: Wash w re The product must b where it will not Containers that ha	c life with long lasting effects il all safety precautions have been read and loves/protective clothing/eye protection/face eyes to become exposed to the product. Do not ct. the environment. ghly after handling. or smoke when using this product. ediately call a POISON CENTER or see mouth. Do NOT induce vomiting. sposed to the product: Rinse the eyes with water and immediately contact a physician. with plenty of soap and water. be stored in a cool, well-ventilated location be exposed to direct sunlight. ave been opened must be tightly sealed.
Disposa	-	ts/container in accordance with tional/international regulations.



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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

Mixture
Concentrationwt.%
80-90
<20

4. First-aid measures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 contact lenses if present and if removal is easy, then continue rinsing. Rinse for 15 minutes at a minimum and seek medical attention.
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, and dry sand are effective.
Extinguishing Media to Avoid:	Use of straight stream of water can cause a risk of spreading fire.
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.
	Keep unauthorized persons off the site of occurrence of fire and the surroundings.
	Even after extinction, cool containers thoroughly with plenty of water.



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Special protective equipment and precautions for fire fighters:	Wear fire/flame resistant/retardant clothing.
	Fight fire from windward direction while wearing protective equipment. If contact with skin is expected, wear impervious protective equipment and gloves. Use air-breathing apparatus and protective clothing whenever necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Wear protective equipment when working.
equipment and emergency procedures.	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 containment and cleaning up:	In case of spillage in small quantity, collect spillage by absorbing with earth, sand, sawdust, waste, or other proper materials.
	In case of spillage in large quantity, enclose with embankment to prevent spreading of spillage and collect spillage in empty containers to the extent possible.
Prevention of second accident:	In case of spillage, immediately inform the organizations concerned of the spillage to prevent possible accidents and spreading of spillage.
	Remove nearby potential ignition sources immediately and make fire-extinguishing agents available. Remove spillage completely, and ventilate and clean the site and the surroundings.

7. Handling and storage

Handling

Technical Measures: Keep away from any possible contact with sparks, open flames, and high-temperature materials, and do not allow release of vapor without justification. Use pumps or other proper equipment for taking out from containers. Do not siphon with your mouth using a tube. Do not drink. When mist is generated, use respiratory equipment to prevent inhalation of mist.

	For a Better Tomorrow AISIN GROUP	SAFETY DATA SHEET MSDS: A4152-0527E51EEN Date Prepared: 2016/05/27 Date Revised:
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	Ventilation requirements: Precautions: Precautions for safe handling:	<pre>In case of vapor/mist dispersion, install a closed system, local ventilation system, and/or other proper equipment for the sources of vapor/mist generation. Avoid rough handling of containers such as falling, dropping, exposing to shock, and dragging. Maintain adequate ventilation when handling indoors. Wash hands and face thoroughly after handling. Be careful with fire. Avoid falling, dropping, exposing to shock, or dragging of containers. Wear protective gloves when opening containers to eliminate a risk of hand injury.</pre>
Storage	Storage Conditions: Safety adequate container materials:	Store in a well ventilated, cool, dry, dark place, protecting from direct sunlight and keeping away from any potential ignition sources and high-temperature materials. Store tightly stopped after use to prevent possible contamination with dust and moisture. Preferably store locked up in a proper storage area. 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.

		Japan		
		Society		
		for	AC	GIH
		Occupati	not	5111
	Ingredient Name	onal		
	ingreatent name	Health	L	
		Occupati		
		onal	TLV-STEL	TLV-TWA
		Exposure		12, 100
		Limits		
Base Oil(s)		None		None
		establis	establis	
			hedppm, N	
		mg/m3(Mi		mg/m3(Mi
		neral	establis	
		0i1	hedmg/m3	0i1

Control parameters



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Personal Protective Equipment Respiratory Protection: Hand protection: Eye/face protection: Skin Protection: Hygiene Measures:
Not needed under normal conditions, but wear a gas mask (against organic gases) whenever required. In case of prolonged or repeated exposure, wear oil-resistant hand protection. In case of exposure to splashes, wear ordinary type goggles. In case of handling over a prolonged period of time or in case of exposure to oil, wear oil-resistant, long-sleeved work clothing.

9. Physical and chemical properties

Product

Physical state:	Liquid
Form:	Liquid
1 01 m	*
Color:	Red
Odor:	Slight odor
Melting point/freezing	Pour Point-51(℃)
point:	
Initial boiling point	Initial boiling point - End point No data
and boiling range:	
Flash point:	224(°C)Cleveland Open Cup
Vapour density:	No data.
Density(g/cm3):	Density0.8499(15°C)
Solubility:	water : Insoluble.
Partition coefficient: n	n-No data.
octanol/water:	
Decomposition	No data.
temperature:	
Kinematic Viscosity	$>20.5(mm2/sec)(40^{\circ}C)$

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 acids, alkalis, and acidifying substances.
Hazardous decomposition products:	When burnt, may release carbon monoxide and other gases.



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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.
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
exposure:	the classification criteria for mixtures.
Target organ effect/Multi	For mixtures, hazard category was identified based on
exposure:	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): Acute toxicity (dermal): Serious eye damage/irritation: Skin sensitization: Mutagenicity: Carcinogenicity: LD50:≧ 5000 mg/kg[rat] LD50:≧ 5000 mg/kg[rat] Practically None None Buehler method [guinea pig] Ames Test:Negative EU:Category 2 : R45 need not apply. (NOTE L is Applicable), IARC:3

12. Ecological information

Product

Ecotoxicity Fish acute toxicity:

For mixtures, hazard category was identified based on the classification criteria for mixtures.



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

13. Disposal considerations

Disposal Dispose of contents/container in accordance with local/regional/national/international methods: regulations. Every customer/user of the product should dispose of industrial waste on its own responsibility, otherwise it must rely on a company authorized by prefectural governor for treating industrial waste or a local public body involved in the disposal of industrial waste for proper disposal. Before disposal of used container, remove contents completely.

14. Transport information

IMDGUN classification :Not applicableSpecific security precaution and
condition of transportation:Transport containers without causing any significant friction or
shaking.

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
Australia(AICS) :	application or notification is required. 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.



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

Disclaimer

While Aisin World Corp. of America believes the statements set forth herein are accurate as of the date hereof, Aisin World Corp. of America makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation, and verification.