

SDS: A4152-E231US+

Date Prepared: 2017/05/25 Date Revised: 2023/09/04

Product Name: AISIN ATF-DW1 Formulated for DW-1 Applications

#### 1. Identification

Product name: AISIN ATF-DW1 Formulated for DW-1 Applications

Manufacturer/Supplier: AISIN World Corp. of America

Address: 24330 Garnier Street, Torrance, CA. 90505

Telephone: +1-800-822-2726

Emergency Telephone 3E: 1-800-451-8346 Number (US and Canada): ID Number: 17406

Contact Available: 24/7/365

Recommended use and restrictions on use:

Transmission Fluid
None identified

# 2. Hazards identification

Classification of the chemical in accordance with OSHA Hazard Communication Standard (29 CFR § 1910.1200)

Hazard category Category

Flammable liquids

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (dust, mist)

Aspiration hazard

No Classification

No Classification

No Classification

Acute hazards to the aquatic environment Category 3

Chronic hazards to the aquatic environment Category 3

Label elements

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.

Do not eat, drink or smoke when using this product.

Response If swallowed: Immediately call a poison center/doctor/...

If swallowed: Rinse mouth. Do NOT induce vomiting.



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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 water/...

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.

Emergency overview: PBT or vPvB: Not applicable

### 3. Composition/information on ingredients

3.1. Substances Not Applicable

#### 3.2. Mixtures

Ingredients and Concentration

Chemical Name	Concentra tion wt.%	$C\Delta SH$
Base 0il(s)	80-90	Trade Secret
Additives	<20	
3-(decyloxy) tetrahydrothiophene 1,1-dioxide	0. 1-0. 9	Trade Secret
Reaction product of alkylthioalcohol and substituted phosphorus compound	0. 1-0. 9	Trade Secret
2,5-bis(tert-nonyldithio)-1,3,4-thiadiazole	0. 1-0. 9	Trade Secret

## 4. First-aid measures

Inhalation: If inhaled: Remove person to fresh air and keep 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.



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Ingestion: Do not induce vomiting. Drink [one glass] [two glasses] of water.

Call a physician [or poison control

center] immediately.

Most important symptoms/effects,

May cause allergic skin reaction. Dermatis. Rash.

acute and delayed.

Protection for first aid person:

No information.

### 5. Fire-fighting measures

Suitable extinguishing media: Mist of loaded liquid, dry chemicals, carbon dioxide, fire foam,

and dry sand are effective.

Unsuitable extinguishing media: 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.

Specific extinguishing methods: 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.

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.

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: Avoid release to the environment.

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.



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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 fireextinguishing 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.

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.

Ventilation requirements:

Maintain adequate ventilation when handling indoors.

Precautions for safe

handling:

Avoid falling, dropping, exposing to shock, or dragging of

containers.

Wash hands and face thoroughly after handling.

Be careful with fire.

Wear protective gloves when opening containers to eliminate a risk

of hand injury.

Contact avoidance: Use care to keep away from any possible contact with halogens,

strong acids, alkalis, and acidifying substances.

Contact with and storage in the same location of halogens, strong

acids, alkali and oxidized substances must be avoided.

Hygiene measures: After handling Wash hands thoroughly.

Storage



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Storage conditions: 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.

Safety adequate container materials: 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.

#### Control parameters

Chemical Name		U.S OSHA			ACGIH	
		STEL	TWA	TLV-STEL	TLV-TWA	
Base 0il(s)	-ppm -mg/m3	-ppm -mg/m3	-ppm -mg/m3	-ppm -mg/m3	-ppm 5mg/m3(Mi neral Oil Mist)	
3-(decyloxy) tetrahydrothiophene 1,1-dioxide	-ppm	-ppm	-ppm	-ppm	-ppm	
	-mg/m3	-mg/m3	-mg/m3	-mg/m3	-mg/m3	
Reaction product of alkylthioalcohol and substituted phosphorus compound	-ppm	-ppm	-ppm	-ppm	-ppm	
	-mg/m3	-mg/m3	-mg/m3	-mg/m3	-mg/m3	
2,5-bis(tert-nonyldithio)-1,3,4-thiadiazole	-ppm	-ppm	-ppm	-ppm	-ppm	
	-mg/m3	-mg/m3	-mg/m3	-mg/m3	-mg/m3	

Personal protective equipment

Respiratory protection: Not needed under normal conditions, but wear a gas mask (against

organic gases) whenever required.

Hand protection: In case of prolonged or repeated exposure, wear oil-resistant hand

protection.

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

exposure to oil, wear oil-resistant, long-sleeved work clothing.

Hygiene measures: Take off contaminated clothing and wash thoroughly before reuse.

Wash hands thoroughly after handling.



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#### 9. Physical and chemical properties

Product

Appearance: Liquid
Form: Liquid
Color: Red

Odor: Slight odor
Melting point/freezing Pour Point-48(°C)

point:

Initial boiling point No data

and boiling range:

Flammability (solid, No data

gas):

Upper/lower ExplosionLimit(1-7vol%)

flammability or explosive limits:

Flash point: ≥170(°C)Cleveland Open Cup

Auto-ignition Estimate200-410(°C)

temperature:

Decomposition No data.

temperature:

pH: No data

Kinematic viscosity:  $>20.5 \text{ (mm2/sec)} (40^{\circ}\text{C})$ Solubility: water: Insoluble.

Partition coefficient: No data.

 $n\hbox{-}octanol/water \verb:$ 

Vapour pressure: No data Density(g/cm3): 0.8499(15 $^{\circ}$ C) Vapour density: No data. Particle No data

characteristics:

Relative density: No data. Viscosity: No data.

#### 10. Stability and reactivity

Reactivity: Stable when stored or preserved in a dark place at room temperature.

Chemical stability: Stable when stored or preserved in a dark place at room temperature.

Possibility of hazardous Keep away from any possible contact with strong oxidizing agents.

reactions:

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

Symptoms related to the physical, chemical and toxicological characteristics:

May cause allergic skin reaction. Dermatitis. Rash.

Delayed and immediate effects and also chronic effects from short- and long- term exposure:

Potential immediate effects : No information Potential delayed effects : No information

<u>Long term exposure:</u>

Short term exposure:

Potential immediate effects : No information Potential delayed effects : No information

Product

Acute toxicity (oral): No Classification

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Acute toxicity (dermal): No Classification

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Acute toxicity (inhalation): Classification not possible (Gas)

Classification not possible (Vapour)

No Classification (Dust/Mist)

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Skin corrosion/irritation: Classification not possible

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Serious eye damage/irritation: Classification not possible

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Respiratory sensitization: Classification not possible

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Skin sensitization: Classification not possible

For mixtures, hazard category was identified based on the

classification criteria for  ${\tt mixtures.}$ 

Mutagenicity: Classification not possible

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Carcinogenicity: Classification not possible

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Reproductive toxicity: Classification not possible

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Target organ effect/Single

exposure:

Classification not possible



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For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Target organ effect/Multi

exposure:

Classification not possible

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Respiratory toxic: No Classification

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Ingredient
Base Oil(s)

Acute toxicity (oral): No Classification

LC50:> 5000 mg/kg[rat]

Acute toxicity (dermal): No Classification

LC50: > 5000 mg/kg[rat]

Acute toxicity (inhalation): Exempt classification (Gas)

Exempt classification (Vapour)
No Classification (Dust/Mist)

LC50:> 5 mg/L[rat]

Skin corrosion/irritation: No Classification

Serious eye damage/irritation: No Classification

Practically None

Respiratory sensitization: Classification not possible

Skin sensitization: No Classification

None Buehler method [guinea pig]

Mutagenicity: No Classification

Ames Test:Negative

Carcinogenicity: No Classification

EU: Category 2: R45 need not apply. (NOTE L is Applicable),

IARC:3

Reproductive toxicity: No Classification
Target organ effect/Single No Classification

exposure:

Target organ effect/Multi

No Classification

exposure:

Respiratory toxic: No Classification

Reaction product of alkylthioalcohol and substituted phosphorus compound

Acute toxicity (dermal): Category 5
Skin corrosion/irritation: Category 1B

# 12. Ecological information

Product



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Ecotoxicity

Acute toxicity: Category 3

Fish acute toxicity: For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Daphnia acute toxicity: No information.

Algae acute toxicity: For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Chronic toxicity: Category 3

Fish chronic toxicity: For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Daphnia chronic toxicity: No information.

Algae chronic toxicity: For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Persistence and degradability: No information available on mixtures

Bioaccumulative potential:

Mobility in soil:

Dangerous for the ozone layer:

Other impact:

No information for mixtures.

No information not possible

No information for mixtures.

Ingredient
Base Oil(s)

Ecotoxicity

Acute toxicity: No Classification

Fish acute toxicity: 96hLC50:> 5000 mg/L[Oncorhynchus mykiss]

Daphnia acute toxicity: 48hEC50:> 1000 mg/L[Daphnia magna]

Chronic toxicity: No Classification

Dangerous for the ozone layer: Classification not possible

3-(decyloxy) tetrahydrothiophene 1, 1-dioxide

Ecotoxicity

Acute toxicity: No Data
Chronic toxicity: Category 2

Reaction product of alkylthioalcohol and substituted phosphorus compound

Ecotoxicity

Acute toxicity: Category 1
Chronic toxicity: Category 1

# 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.



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### 14. Transport information

IATA UN number: Not regulated

Proper Not regulated

shipping

name:

Packing Not regulated

group:

IMDG UN number: Not regulated

Proper Not regulated

shipping name:

Packing Not regulated

group:

Domestic restriction: No information.

Specific security Transport of

precaution and condition

of transportation:

Transport containers without causing any significant friction or shaking.

# 15. Regulatory information

US California Proposition 65

None of the ingredients is listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA Title III)

None present or none present in regulated concentrations.

Australia(AICS):

Canada(DSL):

All components are listed or exempted.

China(IECSC):

All components are listed or exempted.

All components are listed or exempted.

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.

Korea(K-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):
One or more components are not listed.
Philippines(PICCS):
All components are listed or exempted.
Taiwan(TCSI):
All components are listed or exempted.
USA(TSCA):
All components are listed or exempted.

#### 16. Other information



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NFPA Health hazard rating blue:0, Flammability hazard rating:1

HMIS Health Ratings:0, Flammability Ratings:1

Date Prepared: 2023/09/04 Reference No 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.