

SDS: A4270_E71USUS+ Date Prepared: 11/20/2018 Date Revised: 7/16/2020

Product Name: AISIN ATF-MFZ Formulated for FZ Applications

1. Identification

Product name: AISIN ATF-MFZ Formulated for FZ Applications

Recommended use and General industrial application

restrictions on use:

Manufacturer/Supplier: AISIN World Corp of America

Address: 24330 Garnier Street, Torrance, CA 90505 (TEL:+1-800-822-2726)

Emergency telephone +1-847-413-2188

number:

2. Hazards identification

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

Hazard category Category

Flammable liquids No Classification
Acute toxicity (oral) No Classification
Acute toxicity (dermal) No Classification
Aspiration hazard No Classification

Label elements

Pictograms: Not applicable
Signal word: Not applicable
Hazard statement: Not applicable

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.

Wash hands thoroughly after handling.

Do no eat, drink or smoke when using this product.

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.

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.



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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

	Concentra tion wt.%	
Base 0il(s)	80-90	Trade Secret
Additives	<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 [one glass] [two glasses] of water. Call

a physician [or poison control

center] immediately.

Most important symptoms/effects,

acute and delayed.

 $\ensuremath{\mathsf{May}}$ cause allergic skin reaction. Dermatis. Rash.

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.



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Specific hazards arising from the In some cases of fire, may release irritant gases.

chemical:

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 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.

spills and absorb with absorption mat of other proper materials.

Methods and materials for In case of spillage in small quantity, collect spillage by absorbing containment and cleaning up: 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.



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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: 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 risk of

hand injury.

Storage

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.



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Control parameters

Chemical Name	U.S OSHA			ACGIH	
Chemical Name		STEL	TWA	TLV-STEL	TLV-TWA
Base 0il(s)	-ppm -mg/m3	-ppm -mg/m3	-ppm -mg/m3		-ppm 5mg/m3(Mi neral Oil Mist)

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.

9. Physical and chemical properties

Product

Appearance: Liquid
Form: Liquid
Color: Blue

Odor: Slight odor pH: No data. Vapour No data.

pressure:

Relative No data.

density:

Viscosity: No data.
Upper/lower No data.

flammability
or explosive
limits:

Melting point/freezing Pour Point-48(°C)

point:

Flash point: 220(°C)Cleveland Open Cup



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Estimate200-410(°C) Auto-ignition

temperature:

No data. Vapour density: Density(g/cm3): $0.8499(15^{\circ}\text{C})$ Solubility: water: Insoluble.

Partition coefficient: No data.

n-octanol/water:

Decomposition No data.

temperature:

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

10. Stability and reactivity

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.

11. Toxicological information

Symptoms related to the physical, chemical May cause allergic skin reaction. Dermatitis. Rash. and toxicological characteristics:

Delayed and immediate effects and also chronic effects from short- and long- term Potential immediate effects: No information

exposure:

Short term exposure:

Potential delayed effects : No information

Long term exposure:

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



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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

exposure:

For mixtures, hazard category was identified based on the

classification criteria for mixtures.

Target organ effect/Multi

exposure:

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.

Other information:

Ingredient
Base Oil(s)

Acute toxicity (oral): LC50: > 5000 mg/kg[rat] Acute toxicity (dermal): LC50: > 5000 mg/kg[rat] Acute toxicity (inhalation): LC50: > 5 mg/L[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 Applicable),

IARC:3



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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.

Other impact:

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

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

IATA UN number: Not regulated

Proper Not regulated

shipping name:

Packing Not regulated

group:

 ${\tt IMDG} \qquad \qquad {\tt UN \ number:} \qquad {\tt Not \ regulated}$

Proper Not regulated

shipping name:



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Packing

Not regulated

group:

Specific security precaution and condition

Transport containers without causing any significant friction or shaking.

of transportation:

15. Regulatory information

US California Proposition 65

None of the ingredients is listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA TitleⅢ)

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(KECL): All components are listed or exempted.

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.

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

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

HMIS Health Ratings:0, Flammability Ratings:1

While Aisin World Corp. of America believes the statements set forth herein are Date Prepared:

Disclaimer:

While Aisin World Corp. of America makes no warranty Disclaimer:

with respect thereto and expressly disclaims all liability for reliance

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and verification.