

Safety Data Sheet ATF-AW2 (Professional)(EU)

according to Regulation (EC) No 1907/2006, Article 31 as amended Revision: 14.05.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: AW-2 (professional)
Registration number Mixture
UFI: 7J10-P0VG-5004-K9FP

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

Product category PC24 Lubricants, greases, release products
Application of the substance / the mixture Lubricant
Uses advised against The product is strictly intended for industrial or professional use only.

1.3 Details of the supplier of the safety data sheet

Supplier:

AISIN Europe S.A.

Avenue de l'Industrie 19 - 1420 Braine L'Alleud - Belgium

Tel.: +32 387 01 10

AISIN Europe Aftermarket - www.aisinaftermarket.eu Tel: +32 2 387 01 36 - am.contact@aisin-europe.com

Further information obtainable from: Product safety department.

1.4 Emergency telephone number

Tel: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms

Signal word Danger

Hazard-determining components of labelling: Lubricating oils

Hazard statements H304 May be fatal if swallowed and enters airways.

GHS08



Precautionary statements EP301+P310 IF SWALLOWED: Immediately

call a POISON CENTER/doctor. P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

Additional information EUH208 Contains 1,1'-(iminobis(ethyleneiminoethylene))

bis(3-(octadecenyl)pyrrolidine-2,5-dione).

May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT Not applicable. vPvB Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: A blend of highly refined mineral oils, synthetic base oils and multifunctional additives.

| Dangerous components | | |
|---|---|---------------|
| CAS: 74869-22-0 EINECS: 278-012-2 | Lubricating oils Asp. Tox. 1, H304 Note: L | 50 – 100% |
| CAS: 1041187-44-3 ELINCS: 424-820-7 Reg.nr.: 01-0000017126- | Reaction product of alkylthioalcohol and substituted phosphorus compound | 0,1 - < 0,25% |
| 75-XXXX | Skin Corr. 1B, H314; Eye Dam. 1, H318; ♣ Aquatic Chronic 1, H410 (M=10); ♣ Acute Tox. 4, H312 | |
| CAS: 64051-50-9 EINECS: 264-637-8 Reg.nr.: (Confidential) | 1,1'-(iminobis(ethyleneiminoethylene)) bis(3-(octadecenyl) pyrrolidine-2,5-dione) | 0,1 - < 1% |
| | Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 | |

Additional information: CAS: 1041187-44-3 (shown above) is part of a tested "Alkyl

phosphites mixture".

Acute and chronic aquatic testing done on the "Alkyl phosphites

mixture" results in a classification of Acute Aquatic 3,

which takes precedence over the calculated classification,

according to GHS.

The classification of the product is then calculated using the classification (Acute Aquatic 3) and wt% of the "Alkyl phosphites mixture", plus the classification and wt% of any other substances

with an aquatic classification.

Mineral oil contains <3% DMSO extract as measured by IP346. For the wording of the listed hazard phrases refer to section 16.



SECTION 4: First aid measures

4.1 Description of first aid measures

General information Immediately remove any clothing soiled by the product.

After inhalation Supply fresh air; consult doctor in case of complaints.

After skin contact Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact Check for and remove any contact lenses. Rinse

opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing Wash mouth out with water

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head

below hips to prevent aspiration.

Information for doctor If ingested, material may be aspirated into the lungs

and cause chemical pneumonitis. Treat appropriately.

Treat symptomatically and supportively.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or

alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx) Phosphorous oxides Sulphur Oxides (SOx)

5.3 Advice for firefighters

Protective equipment Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible, absorbent material e.g.sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from oxidising agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Storage class: 10

7.3 Specific end use(s)

No further relevant information available.



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

| DNELs | | | | | |
|---|--|--|--|--|--|
| CAS: 1041187-44 | CAS: 1041187-44-3 Reaction product of alkylthioalcohol and substituted phosphorus compound | | | | |
| Oral | Long-term systemic effects | 250 µg/kg bw/day (general population) | | | |
| Dermal | Long-term systemic effects | 250 µg/kg bw/day (general population) 500 µg/kg bw/day (worker) | | | |
| Inhalative | Long-term systemic effects Long-term systemic effects | 1,76 mg/m³ (worker) 430 µg/m³ (general population) | | | |
| CAS: 64051-50-9 1,1'-(iminobis(ethyleneiminoethylene))bis(3-(octadecenyl)pyrrolidine-2,5-dione) | | | | | |
| Dermal | Long-term systemic effects | 6,7 mg/kg bw/day (worker) | | | |
| Inhalative | Long-term systemic effects | 12 mg/m³ (worker) | | | |

| PNECs | |
|---|--|
| CAS: 1041187-44-3 Reaction product of alk | ylthioalcohol and substituted phosphorus compound |
| Freshwater | 900 ng/L |
| Freshwater - Intermittent releases | 900 ng/L |
| Marine water | 90 ng/L |
| Sewage Treatment Plant | 5 mg/L |
| Sediment (freshwater) | 730 µg/kg |
| Sediment (marine water) | 73 µg/kg |
| Secondary poisoning | 10 mg/kg food |
| Soil | 86 µg/kg |
| CAS: 64051-50-9 1,1'-(iminobis(ethyleneimin | oethylene))bis(3-(octadecenyl)pyrrolidine-2,5-dione) |
| Freshwater | 47,6 µg/L |
| Freshwater - Intermittent releases | 476 µg/L |
| Marine water | 4,76 μg/L |
| Marine water - Intermittent releases | 47,6 μg/L |
| Sewage Treatment Plant | 32 mg/L |
| Sediment (freshwater) | 883.000 mg/kg |
| Sediment (marine water) | 88.300 mg/kg |
| Secondary poisoning | 66,7 mg/kg food |
| Soil | 177 g/kg soil |

Additional information:

The lists valid during the making were used as basis.





8.2 Exposure controls

Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not carry product impregnated cleaning cloths in trouser pockets.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
Filter A for organic vapours

Hand protection



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the

product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, **NBR** Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

Break-through time: > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Safety glasses with side-shields conforming to EN166.

Eye/face protection:



Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection:



Protective work clothing Body protection must be chosen depending on product properties, activity and possible exposure.

Environmental exposure controls Risk management measures

Do not allow to enter drains, sewers or watercourses. The operators shall be instructed adequately.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state
Colour
Codour
C

Odour threshold Not determined.

Melting point/freezing point ≤ -45 °C (Pour Point Boiling point and boiling range

Undetermined.

Flammability Not applicable.

Lower and upper explosion limit

Lower 1 Vol %
Upper 7 Vol %
Flash point 175 - 220 °C
Auto-ignition temperature 200 - 410 °C
Decomposition temperature pH Not determined.
Not determined.

Viscosity

Kinematic viscosity at 40 °C < 20,5 mm²/s **Dynamic** Not determined.

Solubility

Water Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)

Not determined.

Vapour pressure Not determined.

Density and/or relative density

Density at 20 °C 0,822 g/cm³
Relative density Not determined.
Vapour density Not determined.

9.2 Other information

Appearance

Form Liquid

Important information on protection of health and environment, and on safety.

Ignition temperature Product is not self-igniting.

Explosive properties Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

Solvent content

VOC (EC) 0,00 %

Change in condition

Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives

Flammable gases

Aerosols

Oxidising gases

Gases under pressure

Flammable liquids

Flammable solids

Not applicable

Not applicable

Not applicable

Not applicable





Self-reactive substances and mixtures Not applicable

Pyrophoric liquids Not applicable Pyrophoric solids Not applicable

Self-heating substances and mixtures Not applicable

Substances and mixtures, which emit flammable gases in contact with water

Not applicable
Not applicable
Not applicable
Not applicable

Organic peroxides Not applicable
Corrosive to metals Not applicable
Desensitised explosives Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Oxidising liquids

Oxidising solids

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Heat and static discharge.

10.5 Incompatible materials:

Strong acids.

Strong bases.

Strong oxidising agents.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Phosphorus oxides (e.g. P2O5)

Sulphur oxides (SOx)



SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

| LD/LC50 values relevant for classification | | | |
|---|------|--------------------|--|
| CAS: 1041187-44-3 Reaction product of alkylthioalcohol and substituted phosphorus compound | | | |
| Oral | LD50 | 2.000 mg/kg (rat) | |
| Dermal | LD50 | 500 mg/kg (rabbit) | |
| CAS: 64051-50-9 1,1'-(iminobis(ethyleneiminoethylene))bis(3-(octadecenyl)pyrrolidine-2,5-dione) | | | |
| Oral | LD50 | 2.000 mg/kg (rat) | |
| Dermal | LD50 | 2.000 mg/kg (rat) | |

Primary irritant effect:

Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure

Based on available data, the classification criteria are not met.
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Aspiration hazard May be fatal if swallowed and enters airways.

Subacute to chronic toxicity Prolonged or repeated skin

contact may irritate and cause dermatitis.

Additional toxicological information Repeated or prolonged skin contact may induce sensiti-

sation.

11.2 Information on other hazards

Endocrine disrupting properties None of the ingredients are listed.

SECTION 12: Ecological information

12.1 Toxicity

| Aquatic toxicity | | |
|---|---|--|
| CAS: 64051-50-9 1,1'-(iminobis(ethyleneiminoethylene))bis(3-(octadecenyl)pyrrolidine-2,5-dione) | | |
| EC50 (48 h) | 73,4 mg/l (aquatic invertebrates) | |
| EC50 (72 h) | 48,9 – 100 mg/l (aquatic algae and cyanobacteria) 100 mg/l (algae) | |
| EC50 (3 h) | 320 mg/L (microorganisms) | |

12.2 Persistence and degradability

Not easily biodegradable

12.3 Bioaccumulative potential

Contains components with the potential to bioaccumulate.





12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT Not applicable. vPvB Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark: Harmful to fish

Additional ecological information:

General notes: Harmful to aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely

small quantities leak into the ground.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Recommended Hierarchy of Controls

- Minimise waste:
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do

not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as

hazardous waste. Anyone classifying hazardous waste

and determining its fate must be qualified in accordance with state and international legislation. Delivery of waste oil to offically authorised collectors only.

| · European waste catalogue | | |
|----------------------------|---|--|
| 13 00 00 | OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19) | |
| 13 02 00 | waste engine, gear and lubricating oils | |
| 13 02 05* | mineral-based non-chlorinated engine, gear and lubricating oils | |

Uncleaned packaging:

Recommendation: Empty contaminated packagings thoroughly. They may be

recycled after thorough and proper cleaning.

Disposal must be made according to official regulations. Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or



perform similar operations on or near empty containers.

Recommended cleansing agents Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA Not applicable

14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA Not applicable

14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA

Class Not applicable

14.4 Packing group

ADR/RID/ADN, IMDG, IATA Not applicable

14.5 Environmental hazards Not applicable.

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable

Transport/Additional information Not dangerous according to the above specifications.

UN «Model Regulation» Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients are listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients are listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under

Article 5(3)) None of the ingredients are listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients are listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients are listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Training hints

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

Department issuing SDS: Product safety department.

Date of previous version: 09.05.2025

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European

Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1B: Skin sensitisation - Category 1B Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

*Data compared to the previous version altered.



Typical Properties of AW-2

| | | AW-2(JAPAN) |
|----------------------|---------|-------------|
| Density@15°C | g/cm3 | 0.822 |
| Color | ASTM | RED |
| Viscosity @40°C | mm2/S | 11.8 |
| Viscosity @100°C | mm2/S | 3.2 |
| Viscosity Index | | 145 |
| Flash Point(COC) | °C | 190 |
| Pour Point | °C | -45 |
| BF Viscosity (-40°C) | Pa·s | 1.2 |
| Acid Number | mgKOH/g | 1.11 |
| Base Number (HCI) | mgKOH/g | 1.78 |
| Elemental Analysis | | |
| В | mass% | 0.004 |
| S | mass% | 0.10 |
| P | mass% | 0.03 |
| Si | mass% | 0.0011 |