

SAFETY DATA SHEET

As per Regulation (EC) No. 1907/2006

SDS n° : 18092013

AWS10

Review date: 2015-05-22

Version : 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/FIRM

1.1. Identification

Product name : AWS10

Pure substance/mixture : Mixture

1.2. Identified uses relevant of the substance or mixture and use advised against

Identified uses : Lubricant

1.3. Information about the supplier of the safety datasheet

Supplier : KIMO
ZI BP16
24700 MONTPON
Tel: 05.53.80.85.00
Fax: 05.53.80.16.81

For more information, please contact :

e-mail address : qualite.securite@kimo.fr

1.4. Emergency call numbers

+33 1 49 00 00 49 (24h/24, 7j/7) ORFILA (INRS) Tél : +33 (0)1 45 42 59 59 In France : - PARIS :
Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10 , Tel : 01.40.05.48.48.
- MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25.
- LYON : Hopital Edouard Herriot, 5 place d'Arsonval, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. -
NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 or le
SAMU : Tel (15)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

For the full text of the Phrases-H mentioned in this section, see section 2.2.

Aspiration toxicity - Category 1 - H304 Acute inhalation toxicity - dust/fog - Category 4 - H332

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DIRECTIVE 67/548/EEC or 1999/45/EC

For the full text of the phrases-R mentioned in this section, see section 16

The substance/mixture is classified as hazardous as per the Directive (s) 67/548/EEC and its amendments and/or 1999/45/EC and its amendments.

Classification

Xn;R65 - Xn;R20

2.2. Label elements

Labeling as per

REGULATION (EC) No 1272/2008



Warning message

DANGER

Hazard statements

H304 – Can cause death in case of ingestion and penetration into respiratory tract

H332 – Harmful by inhalation

Prudent advices

P301 + P310 - IN CASE OF INGESTION : call immediately a POISON CONTROL CENTER or a doctor

P331 – DO NOT induce vomiting

P261 – Avoid inhalation of dust/smokes/gas/mist/fumes/aerosols P271 – Use only outside or in a ventilated area

Contains light naphthenic hydrotreated distillate

2.3. Other hazards

Physicochemical properties

The contaminated surfaces become extremely slippery.

Properties having health effects

In case of unwanted ingestion, the product can be enter into the lungs because of its low viscosity and can cause severe pulmonary injuries in the following hours (compulsory medical monitoring during 48 h). Small quantities reaching lungs by ingestion or vomiting may cause pulmonary edema or pneumonia.

Environmental properties

Should not be released into the environment.

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3. COMPOSITION/INFORMATION ABOUT THE COMPONENTS

3.2. Mixture

| Chemical name | No.-CE | Recording number REACH | No.-CAS | % in weight | Classification (Dir. 67/548) | Classification (Reg. 1272/2008) |
|--|-----------|------------------------|------------|-------------|------------------------------|---|
| Light naphthenic hydrotreated Distillate | 265-156-6 | 01-2119480375-34 | 64742-53-6 | < 90 | - | Asp. Tox. 1 (H304) |
| 1-decene, dimer hydrogenated | - | 01-2119493069-28-0002 | 68649-11-6 | < 10 | Xn;R20-65 | Asp. Tox. 1 (H304) Acute Tox. 4 (H332) |

For the full text of phrases-R mentioned in this section, see section 16

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4. FIRST AID

4.1. FIRST AID DESCRIPTION

General advice

IN CASE OF SERIOUS AND PERSISTENT SYMPTOMS, CALL A DOCTOR OR ASK FOR AN EMERGENDY MEDICAL AID

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact

Remove contaminated clothes and shoes. Wash with water and soap.

Inhalation

The inhalation is doubtful because of the low vapour pressure of the substance at room temperature. However, a vapour exposure can occur when the product is handling at high temperatures with poor ventilation. Start immediately the artificial respiration if the victim is not breathing. In case of high concentration exposure of fume vapours or aerosols, move the person to fresh air, outside the contaminated area. Keep victim warm and at rest.

Ingestion

In case of ingestion, do not induce vomiting – consult a doctor. In case of ingestion following by vomiting, the product may penetrate into the lungs. In this case, the victim have to be moved immediately to an hospital.

Protection for first aider

Use appropriate personal protective equipment.

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4.2. Most important symptoms and effects, both acute and delayed

| | |
|---------------------|---|
| Eye contact | Vapours can cause an irritation. |
| Skin contact | A prolonged or repeated contact can dry the skin and cause irritation. |
| Inhalation | Harmful by inhalation. The inhalation of high concentration vapours can cause an irritation of the respiratory tract. Risk of depression of central nervous system with nausea, headache, dizziness, vomiting and loss of coordination. |
| Ingestion | Harmful : In case of unwanted ingestion, the product can be aspirated into the lungs because of its low viscosity and causes a pneumopathy of inhalation developing in the following hours (Medical surveillance is indispensable during 48h). The ingestion can cause an irritation of the digestive system, nausea, vomiting and diarrhoea. |

4.3. Indication of any immediate medical attention and special treatment needed:

Advices to doctors **Treat symptomatically**

5. FIRE-FIGHTING MEASURES

5.1. Extinguish media

| | |
|---------------------|---|
| Suitable | Use foam, dry chemical or carbon dioxide extinguisher or spray. |
| Not suitable | Do not use water jet. |

5.2. Particular hazards resulting from the substance or mixture

| | |
|------------------------|--|
| Particular risk | Decomposition products may include the following materials: carbon dioxide, carbon monoxide |
|------------------------|--|

5.3. Advices to fire-fighters

| | |
|--|---|
| Equipment of special protection | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Other information | Cool the recipients/tanks by spraying with water. Contaminated fire residues and used water must be disposed of in accordance with the local regulations |

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Main information Careful when discharging the product. It makes the surfaces slippery. Use appropriate personal protective equipment. Keep unconcerned personnel away. Maintain adequate ventilation, especially in closed areas. Eliminate all the ignition sources (do not smoke, torches, immediate spark or flames).

6.2. Environmental precautions

Main information Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material of containing and cleaning

Cleaning methods Remove with an inert absorbent. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water.

6.4. Reference to other sections

Personal protective equipment See section 8 for further details.
Waste treatment See section 13 for further details.
Other information Remove ignition source.

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7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Recommendations for a safe handling

Personal protection equipment, see section 8. Use only in well-ventilated areas. Do not breathe vapours or mist of pulverization. Avoid any contact with eye, skin and clothes.

Prevention of fires and explosions

Handle away from possible source of ignition (open flame, sparks, electric arcs...) and from heat (collectors or hot walls). Do not smoke. Avoid accumulation of electrostatic charges.

Hygienic measures

People exposed to the risk of contacting the product must respect strict hygienic rules. When using the product, do not eat, drink or smoke. It is advised to clean regularly the equipment, the working area and clothes. Do not dry hand with dusters which served during the cleaning. Never use abrasive product, solvents or fuel. Wash your hands before the breaks and at the end of the working day.

7.2. Necessary conditions to ensure the storage security, taking into account possible incompatibilities

Technical measures/Storage conditions

Design the installation to avoid the accidental projections of product (for example, joint failure) on hot protection and electrical contact.

Design the installation to prevent water and soil pollution in case of leak or flow. Store in a collecting pan. Store in a cool, dry and well-ventilated area. Keep safe from open flames, hot surfaces and ignition sources. Ground and establish an equipotential bounding between the containers, tanks and transfer/reception equipments. Store at room temperature. Keep the containers sealed and well-labeled. Use only containers, seals, duct resisting to hydrocarbons.

**Substance to be avoided
Packaging**

Strong acids. Oxidants.

Keep only in the original container or in a container adapted to this type of product. Stainless steel.

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8. CONTROL OF THE INDIVIDUAL EXPOSITION/PROTECTION

8.1. Control parameters

Exposure limit Oil mist (ELV) : 10mg/m³, on 15 minutes
Oil mist (VME) : 5mg/m³, on 8 hours

Legend See section 16

DNEL workers (industrial/professional)

| Chemical name | Short term systemic effect | Short term local effect | Long term systemic effect | Long term local effect |
|--|------------------------------------|-------------------------|---------------------------|------------------------|
| 1-decene, hydrogenated dimer 68649-11-6 | 60 mg/m ³ Inhalation | | | |

DNEL Consommateur

| Chemical name | Short term systemic effect | Short term local effect | Long term systemic effect | Long term local effect |
|--|------------------------------------|-------------------------|---------------------------|------------------------|
| 1-decene, hydrogenated dimer 68649-11-6 | 50 mg/m ³ Inhalation | | | |

8.2. Exposure control

Occupational exposure controls

Technical measure In case of work in enclosed areas (cistern, container...), ensure a breathable atmosphere and wear proper equipment. Apply the necessary technical measures in order to respect occupational exposure limit values.

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Personal protective equipment

General information

All the collective protection measures must be installed and applied before having to consider using the personal protective equipment.

Respiratory protection

All the collective protection measures must be installed and applied before having to consider using the personal protective equipment. The use of respiratory devices must respect the manufacturer's instructions and regulations that govern their choices and uses. When workers are faced to concentrations higher than exposure limits, they must wear appropriate and certified masks. In case of vapours, use a respiratory system with this type of filter : type A. In case of vapours and aerosols : Respiratory system with a vapours/particles cartridge : Type A/P2. Caution ! Filters have a limited use duration.

Eye protection

If there is a risk of splashing, wear : safety glasses with protective sides.

Skin and body protection

Wear appropriate protective clothes. Safety shoes or safety boots.

Hand protection

Waterproof and resistant to aliphatic solvents gloves : PVA, nitrile rubber, neoprene gloves. PVA gloves are not water impermeable and are not suitable for an emergency operation. Please respect the instructions about the permeability and the penetration time that are given by the glove supplier. Take into account also the specific local conditions in which the product is used, such as abrasion and cutting risks.

Exposure control linked to the environmental protection

General information

Do not allow the product to contaminate ground water

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9. PHYSICAL AND CHEMICAL CHARACTERISTICS

9.1. Information the main physical and chemical characteristics

Color Light red
Physical state Liquid
@20 °C
Odour Weak

| Characteristic | Values | Notes | Method |
|---|--|------------------------------------|-----------|
| pH | | Not applicable | |
| Boiling point/range | > 200 °C | | |
| Flash point | > 140 °C | | ASTM D 93 |
| Evaporation rate | | No possible information | |
| Flammable limits in air | | No possible information | |
| Vapour pressure | < 1kPa @ 100 °C | | |
| Vapour density | | No possible information @ 15 °C | |
| Mass density | 871 kg/m ³ | | ISO 12185 |
| Water solubility | | Does not mix with water | |
| Solubility in other solvents | | Soluble in common organic solvents | |
| logPow | | Not applicable | |
| Autoignition temperature | > 270 °C | | |
| Viscosity, kinematic | < 20.5 mm ² /s | @40 °C | ISO 3104 |
| Explosive properties | May form explosive mixtures with air. The matter can accumulate electrostatic charges and so causes ignition of electrical origin. | | |
| Oxidizing properties | Not applicable | | |
| Possibility of hazardous reactions | Not applicable | | |

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9.2. Other information

No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stability Stable in the recommended conditions of handling and storage.

10.3. Possibility of hazardous reactions

Hazardous reactions None in normal use condition.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Avoid the accumulation of electrostatic charges.

10.5. Incompatible materials

Material to avoid Strong acids. Oxidants.

10.6. Hazardous decomposition products

Decomposition products The incomplete combustion and thermolyse produce more or less toxic gases such as CO, CO₂, various hydrocarbon, monoxyde de carbone, dioxyde de carbone, hydrocarbures variés, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

11.1. Information about toxicological effects

Acute toxicity, local effects and product information

Skin contact A prolonged or repeated contact can dry the skin and can cause irritation.

Eye contact Vapours can cause an irritation.

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Inhalation Harmful by inhalation. The inhalation of high concentration vapours can cause an irritation of the respiratory tract. Risk of depression of central nervous system with nausea, headache, dizziness, vomiting and loss of coordination.

Ingestion Harmful : In case of unwanted ingestion, the product can be aspirated into the lungs because of its low viscosity and may cause a pneumopathy of inhalation developing in the following hours (Compulsory medical monitoring during 48h). The ingestion can cause an irritation of the digestive system, nausea, vomiting and diarrhoea.

Acute toxicity – Components information

| Chemical name | DL50 oral | DL50 dermal | CL50 by inhalation |
|--|--|---|---|
| Light naphthenic distillates (petroleum), hydrotreated 1-decene, hydrogenated dimere | > 5000 mg/kg (Rat) LD50 >5000 mg/kg Oral (Rat) | > 2000 mg/kg (Rabbit) LD50 (24h) >3000 mg/kg (Rabbit-OECD 402) | = 2.18 mg/L (Rat) 4 h LC50 (4h) 1.17 mg/l Inhalation dust/mist (Rat) |

Sensitization

Sensitization Not classified as sensitizing.

Specific effects

Carcinogenicity This product is not classified as carcinogen.

| Chemical name | European union |
|---|----------------|
| Light naphthenic distillates (petroleum), hydrotreated 64742-53-6 | - |

Mutagenicity This product is not classified as mutagen.

Toxicity for the reproduction This product does not present known or suspected risks for the reproduction.

Repeated dose toxicity

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Effects on target-organs (STOT)

| | |
|-----------------------------|--|
| Aspiration toxicity | The fluid can enter in the lungs and cause injuries (chemical pneumonitis, potentially deadly). |
| Other information | |
| Other harmful effect | Frequent or prolonged contacts with skin break down the lipoacid cutaneous coating and can cause dermatosis. |

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute toxicity the water environment – Product information

No available information.

Acute toxicity the water environment – Components information

| Chemical name | Toxicity for algae | Toxicity for the daphnia and other aquatic invertebrates | Toxicity for fishes | Toxicity for les micro-organisms |
|---|--|--|--|----------------------------------|
| Light naphthenic distillates (petroleum), hydrotreated 64742-53-6 | | EC50 (48h) > 1000 mg/L Daphnia magna | LC50 (96h) > 5000 mg/L Oncorhynchus mykiss () | |
| 1-decne, dimer hydrogenated 68649-11-6 | EC50 (72h) >1000 mg/l Scenedesmus capricornutum static | EC50 (48h) >1000 mg/l Daphnia magna static | LC50 (96h) >1000 mg/l Oncorhynchus mykiss semistatic | |

Chronic toxicity for the water environment • Product information

No available information.

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Chronic toxicity for the water environment – Components information

| Chemical name | Toxicity for algae | Toxicity for the daphnia and other aquatic invertebrates | Toxicity for fishes | Toxicity for les micro-organisms |
|---|--------------------|--|---------------------|----------------------------------|
| 1-decne, dimer hydrogenated 68649-11-6 | | NOEC (21d) 125 mg/l Daphnia magna | | |

Effects on terrestrial organisms

No available information.

12.2. Persistence and degradability

General information

The product is not supposed to satisfy the fast degradability criteria, but is inherently biodegradable.

12.3. Bioaccumulation potential

| | |
|----------------------------|---|
| Product information | Some constituents of this product presents a bioaccumulation potential. |
| logPow | Not applicable |

Components information

12.4. Mobility in soil

| | |
|--------------|--|
| Soil | Given its physico-chemical data, the product is in general mobile in soil. |
| Air | There is little loss by evaporation. |
| Water | The product is insoluble and floats on water. |

12.5. Results of the PBT and VPVB evaluations

| | |
|---------------------------------|---|
| PBT and vPvB evaluations | This product does not have substance considered as PBT and/or vPvB as per the criteria of the section XIII of the REACH regulation. |
|---------------------------------|---|

12.5. Other harmful effects

| | |
|----------------------------|---------------------------|
| General information | No available information. |
|----------------------------|---------------------------|

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13. CONSIDERATION ABOUT THE ELIMINATION

13.1. Waste treatment methods

| | |
|---|---|
| Waste from residues / unused product | Eliminate in accordance with the European Directives on wastes and hazardous wastes. Should not be released into the environment. |
| Contaminated packaging | Empty containers have to be brought to an approved area for treatment of waste for the purpose of recycling or disposal. |
| Waste number as per the CED | According to the European Waste Catalog (EWC) the waste code does not relate to the product itself but to its application. The waste code have to be given by the user, according to the product application. |

14. INFORMATION ABOUT THE TRANSPORT

ADR/RID non-regulated

IMDG/IMO non-regulated

ICAO/IATA non-regulated

ADN non-regulated

15. REGULATORY INFORMATION

15.1. Specific regulation/legislation for the substance or mixture about safety, health and environment

European Union

International reviews

| | |
|----------------------|-------------|
| EINECS/ELINCS | Comply with |
| TSCA | Comply with |
| DSL | Comply with |
| ENCS | - |
| IECSC | Comply with |
| KECL | Comply with |

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| | |
|--------------|-------------|
| PICCS | Comply with |
| AICS | Comply with |
| NZIoC | Comply with |

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

Additional information

15.2. Evaluation of the chemical safety

Evaluation of the chemical safety No available information

15.3. Information about national legislations

France

- Art. R.4624-19 à R.4624-20 and order of the 11.07.77 (More intensive medical control).

Occupational diseases Art. L 461-6, Art. D.461-1, appendix A, n° 601 (Occupational diseases table)
Relevant table(s) n° 36

16. OTHER INFORMATION

Full text of phrases R mentioned on Chapters 2 and 3

R65 – Harmful: can cause lungs damage if swallowed.

R20 – Harmful by inhalation

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Full text of Phrases-H quoted in sections 2 and 3

H304 – can cause death if swallowed and in case of penetration in respiratory tract
H332 - Harmful inhalation

Abbreviations, acronyms

Legend Section 8

+ Sensitizing product

* Skin designation

** Hazard designation

C: Carcinogenic

M: Mutagen

R: Toxic for the reproduction

Review date: 2015-05-22

Revision: Not applicable

This safety data sheet complies with the requirements of the Regulation (EC) No. 1907/2006

This data sheet comes in addition to the technical user manuals but does not supplant them. Information in this data sheet are based on our state of knowledge about the concerned product, on the indicated date. They are given in good faith. The users should pay also attention on potential risks when a product is used with other uses that those for which it is conceived. It does not exempt for the user to know and apply all the regulatory text of his activity. Under its sole responsibility, the user will apply all the precautions linked to the use of the product. The purpose of the whole of the regulatory regulations mentioned is simply to help the recipient to fulfill the obligations which fall on to him. This enumeration is not exhaustive. The recipient must make sure that other obligations do not fall on to him because of texts other than those quoted.

End of the safety data sheet