**MATERIAL SAFETY DATA SHEET**

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## COMPANY DETAILS

COST EFFECTIVE MAINTENANCE

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## 1 IDENTIFICATION

|  |  |
| --- | --- |
| Product Name: | AW10 Antiwear |
| Manufacturers Code:Product type | AW10Liquid |

## 2 HAZARD IDENTIFICATION

Product definition: Mixture

(Combustible Liquid. Not Dangerous Goods for Transport)

Not classified according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Not classified according to Directive 67/548/EEC (DSD)

|  |  |
| --- | --- |
| UN Number: | NA  |
| Dangerous Goods Class: | NA |
| Hazchem Code: | NA |
| Poisons Schedule Number: | NA |

NOT DANGEROUS ACCORDING TO THE CRITERIA OF THE ADG CODE

Purpose: To assist lubricating qualities of a wide range of oils.

## 3 COMPOSITION / INGREDIENTS

|  |  |  |
| --- | --- | --- |
| Chemical Entity/Ingredient | CAS No | Proportion |
| Mineral Oil | 8042-47-5 | (High >90%) |
| Derivatives of phosphoric acid, C8-18-alkyl esters, several compounds with 2-ethyl-1-hexamine | 111174-61-9 | (Low < 10%) |

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## 4 FIRST AID / HEALTH HAZARD INFORMATION

**Health Effects of Overexposure**

Ingestion: May cause irritation of the mouth, throat and digestive tract, may cause nausea and

vomiting. May cause drowsiness. Chronic exposure may cause damage to the liver and to the kidneys.

Toxicology: Scientific testing undertaken on the major component, namely the solvent carrier, has shown no significant toxicity to reproductive organs.

Eye: Avoid splashing, may act as irritant. No known significant effects or critical hazards.

Skin: Irritant. Avoid prolonged or repeated contact as may cause dermatitis.

Inhaled: Vapour is irritant to mucous membranes and respiratory tract. Vapours may cause

 drowsiness, headache and prolonged high concentrations may cause loss of

 consciousness. Aspiration of liquid into the lungs can cause severe (even fatal) pneumonitis.

**First Aid**

Ingestion: If conscious, wash out mouth with water. Do not induce vomiting because of the risk of aspiration. Give small quantity of water to drink. Keep at rest. Get prompt medical attention.

Eye: Irrigate the eye with copious quantities of water for at least 10 minutes or until

 irritation subsides.

Skin: Wash skin thoroughly with soap and water as soon as possible following contact.

 Remove grossly contaminated clothing and launder before reuse.

Inhaled: Move to fresh air, keep patient warm and at rest. If loss of consciousness give

 oxygen and if breathing stops give artificial respiration. If any suspicion of

 aspiration into lungs seek medical advice.

## 5 FIRE FIGHTING MEASURES

Fire**:** Combustible Liquid. Flash Point P.M. Closed Cup > 120C

 Hazardous products of combustion are smoke, fumes, carbon monoxide.

 Reactivity Data

 Stability - Stable - avoid sources of ignition.

 Fire Extinguishing media

 Foam, dry chemical, carbon dioxide, BCF.

 Special Firefighting Procedures

 Use water spray to cool fire exposed surfaces and any adjacent storage

 vessels. Shut off source of product if safe to do so. Remove sources of

 reignition. Extinguish fire.

 Unusual Fire & Explosion Hazards

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Do not store or mix with strong oxidants, CO evolved if combustion

 incomplete. Product can form flammable mixtures or can burn only upon

 heating at or above flash point.

Other Containers of this product are hazardous when empty. Do not weld, oxy

Information cut or expose to flame or any ignition source.

## 6 ACCIDENTAL RELEASE MEASURES

Spills & Avoid Contact with strong oxidising agents.

Disposal: In the event of a minor spill, cover with sand or oil absorption media. Extinguish

 Spills all sources of ignition. Where a major spill occurs - keep public away, extinguish

 all sources of ignition. Dam and recover, if possible. Prevent entry to drainage

 system. Advise authorities immediately of entry to drainage systems or

 contamination of soil or vegetation. Advise authorities (Police/Fire Brigade) of

 any major spill. Warn occupants downwind. If spill is in confined area an

 approved half-face cartridge respirator suitable for organic vapours to be worn.

## 7 SAFE HANDLING AND STORAGE INFORMATION

Storage: Store in containers in cool location, keep isolated from heat, sparks and sources of ignition. Store in well ventilated area.

Where possible store under cover, protected from weather and direct sunlight.

Store only in original and approved containers.

Static electricity generation may occur during pumping or decanting. Hoses should be electrically continuous, or properly earthed.

Use appropriate PPE

## 8 EXPOSURE CONTROLS PRECAUTIONS FOR USE

**No exposure limit value is known. Below advice is generic.**

Ventilation: Use in a well ventilated space and ensure ventilation is adequate to maintain

 air concentration below OEL. Local exhaust ventilation required in confined

 spaces.

Protection: Personal Petroleum solvent resistant protective gloves to be worn to prevent prolonged

 skin contact.

 Chemical splash goggles or face shield to be worn to protect eyes.

Avoid breathing If a risk assessment indicates it is necessary, use of an approved respirator suitable for

Vapours: organic vapours complying with (AS/NZS 1715 and AS/NZS 1716) may be necessary to prevent overexposure by inhalation.

Flammability: Product is combustible and should only be handled/dispensed in a well ventilated space to prevent build up of vapour or gases.

Keep away from naked lights, sparks or any other potential ignition source.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

|  |  |
| --- | --- |
| Physical State: | Liquid |
| Form/Colour | Clear |
| Odour: | Hydrocarbon odour |
| Boiling Point (°C); | Typical 200°C |
| Vapour Pressure  | < 0.01 kPa @ 20°C  |
| Vapour Density (Air 1) | >1 |
| Density @ 15°C; | 0.93 |
| Flash Point (Closed Cup) (oC); | >120 |
| Auto Ignition Temperature (oC)Explosive propertiesSolubility in water Viscosity | NANAInsoluble70 cSt @ 40°C typical |

## 10 STABILITY AND REACTIVITY

 Reactivity Data

Stability - Stable - avoid sources of ignition. Under normal conditions, no hazardous reactions will occur.

 Do not store or mix with strong oxidants, CO evolved if combustion

 incomplete. Product can form flammable mixtures or can burn only upon

 heating at or above flash point.

## 11 TOXICOLOGICAL INFORMATION

**HEALTH EFFECTS There are no known significant effects or critical hazards, and the below advice is generic.**

**Acute**:

Swallowed: Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Eye: Moderately irritating to eyes (but insufficient to classify).

Skin: May cause moderate skin irritation (but insufficient to classify). Prolonged contact may cause defatting of skin which can lead to dermatitis.

Inhaled: Inhalation of vapours or mists may cause irritation to the respiratory system. Low toxicity LC50 greater than near-saturated vapour concentration – 4 hours Rat.

Chronic: Central nervous system: repeated exposure affects the nervous system.

## 12 ECOLOGICAL INFORMATION

12.1 Toxicity: Not available

12.2 Persistence & Degradability Not available

12.3 Bioaccumulation: Not available

12.4 Mobility in soil Not available

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## 13 DISPOSAL CONSIDERATIONS

 Disposal Disposal should comply the requirements of environmental protection and local authorities.

## 14 TRANSPORT INFORMATION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ADR/RID | ADN/ADNR | IMDG | IATA |
| UN Number | Not Regulated | Not Regulated | Not Regulated | Not Regulated |
| UN Proper Shipping Name | - | - | - | - |
| T’port hazard Class | - | - | - | - |
| Packing Group | - | - | - | - |
| Environmental hazards | No | No | No | No |
| Precautions for user | Not available | Not available | Not available | Not available |
| Additional Information | - | - | - | - |

## 15 REGULATORY INFORMATION

None of the components are listed under EU Regulation (EC) No. 1907/2006 (REACH).

All components are listed or exempted from Australian inventory (AICS) and International lists (incl NZIoC).

## 16 OTHER INFORMATION

PRODUCT USE: To provide lubrication assistance to a wide variety of oil types and applications..

CONTACT POINT: COST EFFECTIVE MAINTENANCE

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 Mobile: 0418 761 053

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The information contained herein is to the best of Cost Effective Maintenance’s knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy him/herself as to the suitability and completeness of such information for his/her own particular use.