# **Material Safety Data Sheet**

Advantage Ashless Hydraulic Oil: AW 68; AW 46; AW 100



### 1. Product and company identification

Product name : Advantage Ashless Hydraulic Oil: AW 68; AW 46: AW 100

Material uses : Hydraulic Oil.

Supplier/Manufacturer : Advanced Lubrication Specialties

420 Imperial Court East Bensalem, PA 19020

Code : 424; 465; 425 Validation date : 06/15/2014

Responsible name : Atrion Regulatory Services, Inc.

In case of emergency : Transportation: 215-244-2114 8am-4:30pm EST Monday to Friday

CHEMTREC: 800-424-9300 24 hrs Everyday

### 2. Hazards identification

Physical state : Liquid. [Viscous.]

Odor : Bland.

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available

for employees and other users of this product.

Emergency overview : CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. HARMFUL OR FATAL IF SWALLOWED.

CAN ENTER LUNGS AND CAUSE DAMAGE.

Slightly irritating to the eyes and skin. Defatting to the skin. Aspiration hazard if

swallowed. Can enter lungs and cause damage. Do not ingest. Avoid breathing vapor or

mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

**Inhalation**: No known significant effects or critical hazards.

**Ingestion** : Aspiration hazard if swallowed. Can enter lungs and cause damage.

Skin : Slightly irritating to the skin.

Eyes : Slightly irritating to the eyes.

Potential chronic health effects

Chronic effects : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No specific data.

**Ingestion**: Adverse symptoms may include the following:

nausea or vomiting



#### Advantage Ashless Hydraulic Oil: AW 68; AW 46; AW 100

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Skin

: Adverse symptoms may include the following:

irritation redness dryness cracking

**Eyes** 

: Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by overexposure : None known.

See toxicological information (section 11)

# 3. Composition/information on ingredients

**United States** 

Name CAS number %
Base Oils. See below. >99

The Base Oil may contains one or more of the following ingredients: 61788-76-9, 64741-88-4, 64742-01-4, 64742-65-0, 64742-89-5, 64742-48-9, 64742-52-5, 64742-54-7, 64742-56-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

**Eye contact** 

: Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.

Skin contact

: Wash with soap and water. Get medical attention if symptoms occur.

Inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.

Ingestion

: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

# 5. Fire-fighting measures

Flammability of the product

**Extinguishing media** 

: May be combustible at high temperature.

Suitable

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Not suitable

: None known.

Hazardous thermal decomposition products

: No specific data.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



### 6. Accidental release measures

#### **Personal precautions**

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

### **Environmental precautions**

: Avoid dispersal of spilled 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).

#### Methods for cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. 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 (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

### 7. Handling and storage

### **Handling**

: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### **Storage**

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# 8. Exposure controls/personal protection

**Product name** 

United States
Exposure limits

Base Oils.

ACGIH TLV (United States). TWA: 5 mg/m³ 8 hour(s). OSHA PEL 1989 (United States).

TWA: 5 mg/m3 8 hour(s).

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### **Engineering measures**

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.



#### **Exposure controls/personal protection** 8.

### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Personal protection**

 Safety glasses. Eyes : Lab coat. Skin

: A respirator is not needed under normal and intended conditions of product use. Respiratory

Natural rubber (latex). **Hands** 

**Personal protective** equipment (Pictograms)



**HMIS Code/Personal** protective equipment : B

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### 9. Physical and chemical properties

**Physical state** : Liquid. [Viscous.]

: Open cup: 148°C (298.4°F) [Cleveland.] Flash point

Color : Amber. [Light]

Odor : Bland.

: -12°C (10.4°F) **Melting/freezing point Relative density** : 0.86 @ 15.6°C

Vapor pressure : <0.13 kPa (<1 mm Hg)

Solubility : Insoluble in the following materials: cold water and hot water.

### 10. Stability and reactivity

**Stability** : The product is stable.

**Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid No specific data.

**Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials.

: Under normal conditions of storage and use, hazardous decomposition products should **Hazardous decomposition** products

not be produced.

# 11. Toxicological information

**Acute toxicity** 

Inhalation : No known significant effects or critical hazards.

Ingestion : Aspiration hazard if swallowed. Can enter lungs and cause damage.

Skin Slightly irritating to the skin.

: Slightly irritating to the eyes. Eyes



# 12 . Ecological information

**Environmental effects** 

: No known significant effects or critical hazards.

# 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

AERG : Not applicable.

**Regulatory information** 

**DOT/ IMDG/ IATA** : Not regulated.

# 15. Regulatory information

**United States** 

**HCS Classification** 

State regulations

U.S. Federal regulations

: Not regulated

: TSCA 4(a) final test rules: Naphthalene

TSCA 8(a) PAIR: Naphthalene

United States inventory (TSCA 8b): All components are listed or exempted.

TSCA 12(b) one-time export: Naphthalene

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No

products were found.

Clean Water Act (CWA) 307: Naphthalene

Clean Water Act (CWA) 311: Naphthalene; Aniline

Clean Air Act (CAA) 112 accidental release prevention: Ethylene oxide

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: Ethylene oxide

: Connecticut Carcinogen Reporting: None of the components are listed.

Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are

listed.

Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed.

Massachusetts Substances: None of the components are listed.

**Michigan Critical Material:** None of the components are listed. **Minnesota Hazardous Substances:** None of the components are listed.

New Jersey Hazardous Substances: None of the components are listed.

New Jersey Spill: None of the components are listed.



# 15. Regulatory information

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: None of the components are listed. Rhode Island Hazardous Substances: None of the components are listed.

California Prop. 65

: **WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Naphthalene	Yes.	No.	Yes.	No.
Aniline	Yes.	No.	Yes.	No.
Ethylene oxide	Yes.	Yes.	Yes.	Yes.
1,4-Dioxane	Yes.	No.	Yes.	No.
2-Naphthylamine	Yes.	No.	Yes.	No.

**International regulations** 

**International lists** 

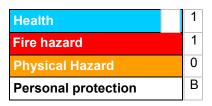
: This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

### 16. Other information

**Label requirements** 

: MAY CAUSE EYE AND SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE.

Hazardous Material Information System (U.S.A.)



**HAZARD RATINGS** 

4- Extreme 3- Serious 2- Moderate 1- Slight 0- Minimal

See section 8 for more detailed information on personal protection.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



References : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. -

29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous

Materials, UN#, Proper Shipping Names, PG.

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### 16. Other information

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.