SAFETY DATA SHEET

SDS #: 082986  A/W HYDRAULIC OIL (ALL GRADES)
Date of the previous version: not applicable  Revision Date: 2015-04-02 Version 1

1. IDENTIFICATION
Product identifier
Product name  A/W HYDRAULIC
Other means of identification
Product Code(s) 082986
Number 157
Substance/mixture Mixture
Recommended use of the chemical and restrictions on use
Identified uses Hydraulic oil.
Uses advised against Do not use for any purpose other than the one for which it is intended
Details of the supplier of the safety data sheet
Supplier Address TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198
Contact Point Technical/ HSEQ
E-mail Address USRMLIN-info@total.com
Emergency telephone number
Company Phone Number +1 (908) 862-9300
Emergency telephone CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATION
Classification
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Label elements
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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Unknown Acute Toxicity
No information available
Hazards not otherwise classified (HNOC)
• None known
Other information
• Contaminated surfaces will be extremely slippery
• Should not be released into the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS
This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

4. FIRST AID MEASURES
First aid measures for different exposure routes
General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact Rinse immediately with plenty of water and seek medical advice.
Skin contact Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.
Inhalation Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.
Ingestion If swallowed, do not induce vomiting - seek medical advice.
Most important symptoms/effects, acute and delayed
Skin contact High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Eye contact Not classified.
Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion Version GNAM
Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
Symptoms
Itching.

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Foam. Carbon dioxide (CO\textsubscript{2}). ABC powder. Water spray.

Unsuitable Extinguishing Media
Do not use a solid water stream as it may scatter and spread fire.

Special Hazard
Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Explosion Data
Sensitivity to Mechanical Impact
none.
Sensitivity to Static Discharge
none.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
General Information
Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Other information
See Section 12 for additional Ecological information.

Environmental precautions
General Information
Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up
Methods for cleaning up
Dam up. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use mechanical means such as pumps, skimmers and absorbent materials.

7. HANDLING AND STORAGE

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Precautions for safe handling

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**Advice on safe handling** When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

**Prevention of fire and explosion** Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.

**Hygiene measures** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

**Conditions for safe storage, including any incompatibilities**

**Technical measures/Storage conditions**

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design equipment to avoid accidental product leakage (for example due to seal failure) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

**Materials to Avoid** Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure limits** Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).

**Exposure controls**

**Engineering Measures** Apply technical measures to comply with the occupational exposure limits.

**Individual protection measures, such as personal protective equipment**

**General Information** If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Eye/Face Protection** If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and body protection**

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Wear suitable protective clothing. Protective shoes or boots.
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Hand Protection  Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the
instructions regarding permeability and breakthrough time which are provided by the
supplier of the gloves. Also take into consideration the specific local conditions under which
the product is used, such as the danger of cuts, abrasion, and the contact time.

Respiratory protection  None required under normal usage. If exposure limits are exceeded or irritation is
experienced, NIOSH/MSHA approved respiratory protection should be worn.
Positive-pressure supplied air respirators may be required for high airborne contaminant
concentrations. Respiratory protection must be provided in accordance with current local
regulations.

Hygiene measures  Ensure the application of strict rules of hygiene by the personnel exposed to the risk of
contact with the product. Regular cleaning of equipment, work area and clothing is
recommended. Wash hands before breaks and immediately after handling the product. Do
not use abrasives, solvents or fuels. Do not dry hands with rags that have been
contaminated with product. Do not put product contaminated rags into workwear pockets.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Color  amber

Physical State @20°C liquid

Odor  Petroleum distillates

Odor Threshold  No information available

Property Values Remarks Method

pH  Not applicable

Melting point/range  No information available

Boiling point/boiling range  Not applicable

Flash point  207 °C Cleveland Open Cup (COC)

ASTM D 92

405 °F Cleveland Open Cup (COC).

ASTM D 92.

Evaporation rate  No information available

Flammability Limits in Air  No information available

upper - No information available

Lower - No information available

Vapor Pressure  No information available

Vapor density  No information available

Relative density  0.867 @ 15 °C ASTM D 1298

Density  868 kg/m³ @ 15 °C ASTM D 1298

Water solubility  Not applicable

Solubility in other solvents  No information available

logPow  No information available

Autoignition temperature  Version GNAM

Not applicable
10. STABILITY AND REACTIVITY

Reactivity
No information available.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to Avoid
Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents.

Incompatible Materials
Strong oxidizing agents.

Hazardous Decomposition Products
Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Information on likely routes of exposure

Product Information

Skin contact
High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

Eye contact
Not classified.

Inhalation
Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion
Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Numerical measures of toxicity - Product Information

ATEmix (oral) 5057 mg/kg
ATEmix (dermal) 5057 mg/kg

Decomposition temperature
No information available

Viscosity, kinematic
32 mm²/s @ 40 °C ASTM D 445

Explosive properties
Not explosive

Oxidizing Properties
Not applicable

Possibility of hazardous reactions
Not applicable

Specific Gravity
0.867 @ 15 °C ASTM D 1298

Freezing Point
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No information available
Inhalation
ATEmix (inhalation-dust/mist) 5.2 mg/l
ATEmix (inhalation-vapor) 30.3 mg/l

Information on toxicological effects
Symptoms Itching.
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Sensitization Not classified as a sensitizer.
Carcinogenicity Contains no ingredient listed as a carcinogen.
Mutagenicity Contains no ingredient listed as a mutagen.
Reproductive toxicity This product does not present any known or suspected reproductive hazards.
Aspiration Hazard Not classified.

12. ECOLOGICAL INFORMATION
Ecotoxicity
Acute aquatic toxicity - Product Information
No experimental data available
Acute aquatic toxicity - Component Information
No information available
Chronic aquatic toxicity - Product Information
No experimental data available
Chronic aquatic toxicity - Component Information
No information available
Effects on terrestrial organisms No experimental data available.
Persistence and degradability
General Information No information available.
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Bioaccumulative potential
13. DISPOSAL CONSIDERATIONS

Waste treatment
Waste Disposal Methods Dispose of in accordance with local regulations.
Contaminated packaging Dispose of in accordance with local regulations.
California Hazardous Waste Codes 221
This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

DOT Not regulated
TDG Not regulated
MEX Not regulated
ICAO/IATA Not regulated
IMDG/IMO Not regulated
ADR/RID Not regulated
ADN Not regulated

15. REGULATORY INFORMATION

International Inventories All the substances contained in this product are listed or exempted from listing in the following inventories:
U.S.A. (TSCA)
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U.S. Federal Regulations
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SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories
Acute Health Hazard no
Chronic Health Hazard no
Fire Hazard no
Sudden Release of Pressure Hazard no
Reactive Hazard no

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
Chemical Name Massachusetts New Jersey Pennsylvania Illinois Rhode Island
Paraffin oils (petroleum), catalytic
dewaxed heavy 64742-70-7
X
Distillates (petroleum), hydrotreated light paraffinic 64742-65-8
X

16. OTHER INFORMATION

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)
Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard
NFPA Health Hazard 0 Flammability 1 Instability 0 Physical and chemical hazards -
HMIS Health Hazard 0 Flammability 1
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Physical Hazard 0 Personal protection X
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.