



APEX ZELLUS HVI HYDRAULIC OIL ISO 46

SAFETY DATA SHEET

Date of Issue : 02.01.2013
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1: Identification Of The Substance/Preparation And Of The Company/Undertaking

1.1. Identification of the substance/preparation

Product Name: APEX ZELLUS HVI HYDRAULIC OIL ISO 46

1.2. Use of the Substance/Preparation

Expressed in writing Hydraulic Oil

1.3. Company/Undertaking Identification

Supplier Reksoil Petrokimya San. Ve Tic. A.Ş
Address Aydınlı Mh. Birlik Organize San. Böl. Doğu Cad. No: 19-21 34953 Tuzla/İSTANBUL/ TÜRKİYE
Telephone +90216 593 35 70
Telefax +90216 593 35 78
Email info@aktasgroup.com.tr

1.4. Emergency telephone number

Poison Information Centre (UZEM):114

2: Hazards Identification

2.1. Classification of the substance or mixture

Fire And Explosion Hazard: Product is not classified hazardous.
Health Hazard: Product is not classified hazardous.
Environmental Hazard: Product is not classified hazardous.

2.2. Label elements

Not applicable

2.3. Other hazards

PBT: Not applicable



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vPvB: Not applicable

3: Composition/Information On Ingredients

3.1. Substances

Chemical name	Cas No	EC No	Concentration(%)	Classification
Lubricating oils, C15-50, hydrotreated neutral oil-based	74869-22-0	278-012-2	60-95	-
Poly long-chain alkyl methacrylate	Proprietary	-	1-5	Eye Irrit.2,H319
methacrylate copolymer	Proprietary	-	0,1-0,3	Eye Irrit.2,H319
Alkyl Methacrylate	Proprietary	-	0,001-0,003	Skin Irrit. 2,H315 Eye Irrit.2,H319 STOT SE 3,H335 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

ADDITIONAL INFORMATION Product containing mineral oil with less than 3% DMSO extract as measured by IP-346

4: First Aid Measures

4.1. Description of first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.
Ingestion	Do not induce vomiting. Rinse mouth with water. Consult a physician.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.



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4.2. Most Important Symptoms And Effects, Both Acute And Delayed

Not determined.

4.3. Indication Of Any Immediate Medical Attention And Special Treatment Needed

Notes to physician Not applicable.

5: Firefighting Measures

5.1. Extinguishing Media

Suitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing media Do not use water .

5.2. Special Hazards Arising From The Substance Or Mixture

Decomposition products may include the following materials: carbon oxides (CO, CO₂)

5.3. Advice For Firefighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment And Emergency Procedures

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).

6.2. Environmental Precautions

Try to restrict the release and prevent spread of the product into the environment. Collect liquid before it spreads into drains, the ground and waters.

6.3. Methods And Materials For Containment And Cleaning Up



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Immediately start clean-up of the liquid and contaminated soil. Small amounts can be collected using absorbent material. Product waste should be disposed in accordance with item 13. In case of spill, immediately contact local authorities.

7: Handling And Storage

7.1. Precautions For Safe Handling

Provide sufficient ventilation when handling the product. Wear protective equipment when needed. Wear safety shoes while handling containers.

7.2. Conditions For Safe Storage, Including Any Incompatibilities

Keep container tightly closed. Keep container in a cool, well-ventilated area.

7.3. Specific End Use(s)

Refer to section 1.2. or the extended SDS if applicable.

8: Exposure Controls/Personal Protection

8.1. Threshold Limits

TWA (8 h) : 5 mg/m³

STEL (15 min) : 10 mg/m³

8.2. Exposure Controls

8.2.1 Personal Protective Equipment



8.2.2 Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

8.2.3 Individual Protection Measures



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Eye/face protection	Safety glasses with side shields. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.
Hand protection	Nitrile rubber, PVC disposable gloves. Change protective gloves often enough.
Skin and body protection	Minimize any skin contact. Protective clothing when needed.
Respiratory protection	Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).

9: Physical And Chemical Properties

9.1. Information On Basic Physical And Chemical Properties

Test	Test Unit	Values	Test Method
Physical state	-	Liquid- Yellow.	-
Odor	-	Petroleum.	-
Odor threshold	-	Not available.	-
pH	-	Not available.	-
Pour Point	°C	Max -35	ASTM D 6749
Initial boiling point and boiling	-	Not available.	-
Evaporation rate	-	Not available.	-
Flammability (solid, gas)	-	Not available.	-
Upper/lower flammability or explosive limits	-	Not available.	-
Vapor pressure	-	Not available.	-
Vapor density	-	Not available.	-
Density, 15 °C	g/cm ³	0,84-0,88	ASTM D 4052
Solubility	-	insoluble in water	-
Partition coefficient (n-octanol/water)	-	Not available.	-
Decomposition temperature	-	Not available.	-
Viscosity, 40 °C	mm ² /s	41.4 - 50.6	ASTM D 445



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Explosive properties	-	Not available.	-
Oxidizing properties	-	Not available.	-
Flash Point	°C	Min. 215	ASTM D 92

9.2. Further information

No specific data.

10: Stability And Reactivity

10.1. Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2. Chemical Stability

The product is stable.

10.3. Possibility Of Hazardous Reactions

Not determined.

10.4 Conditions To Avoid

High temperatures, sparks, and open flames.

10.5 Incompatible Materials

Strong oxidizing and reducing agents.

10.6 Hazardous decomposition products

No specific data.

11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity	No specific data.
Skin irritation	May irritate slightly the skin.
Serious eye damage/ eye irritation	May irritate slightly the the eyes
Carcinogenicity	No specific data.
Reproductive toxicity	No specific data.
Specific target organ toxicity - single exposure	No specific data.



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Specific target organ toxicity - repeat exposure No specific data.

12: Ecological Information

12.1. Toxicity

Daphnia EC50/48h: 101.0000 mg/l

Algae IC50/72h : 101.0000 mg/l

Fish LC50/96h : 101.0000 mg/l

12.2. Persistence and degradability

No specific data.

12.3. Bioaccumulative potential

No specific data.

12.4. Mobility

Product does not evaporate from surface soil or water. It is insoluble in water. Product can penetrate soil until reaching the surface of ground water. Base oil hydrocarbons can be adsorbed onto organic material in soil or sediment.

12.5. Results of PBT and vPvB assessment

No specific data.

12.6. Other adverse effects

No specific data.

13: Disposal Considerations

GENERAL INFORMATION

Dispose of waste and residues in accordance with local authority requirements.

DISPOSAL METHODS

Incinerate with provision for removal of effluent gases by scrubber.

14: Transport information

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

14.1. UN No

Not applicable.

14.2. Proper shipping name



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Not applicable.

14.3. Transport hazard class(es):

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards:

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Product is classified and labeled in accordance with the procedures and principles stipulated in the EU Directive and ' Regulations on the preparation of safety data sheets on hazardous substances and mixtures (13.12.2014- 29204 numbered Official Gazette) ', " The regulation on preparation and distribution of safety data sheets on hazardous materials and preparations (26/12/2008 to 27092 Rep.".

16: Other Information

Revision Statement:

This Safety Data Sheet is Revision 2. Product is classified and labeled in accordance with the procedures and principles stipulated in the (13.12.2014- 29204 numbered Official Gazette) ", " The regulation on preparation and distribution of safety data sheets on hazardous materials and preparations

Explanations of the abbreviations

ADR European Agreement concerning the International Transport of Dangerous Goods by Road
IATA The International Air Transport Association
IMDG International Maritime Dangerous Goods Code
MARPOL 73/78 International Convention for the Prevention of Pollution from Ships



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PBT	Persistent Bioaccumulative Toxic
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
STEL	Short Term Exposure Limit
TWA	8-hour Time Weighted Averages
vPvB	Very Persistent Bioaccumulative Toxic

Information sources

-ESIS (European chemical Substances Information System), <http://esis.jrc.ec.europa.eu/>

- REACH registered chemicals, http://echa.europa.eu/chem_data_en.asp

Hazard statements:

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Preparer

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Certificate No : 01.126.09 (Certified by NBC Safety Data Sheet Preparer)

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