

**MATERIAL SAFETY DATA SHEET**

KSE Elixer Power Steering Fluid

FILE NO.: KR-26-0710

MSDS DATE: 01/15/10

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Elixer Power Steering Fluid  
**PRODUCT CODE:** KSM1086  
**USES:** Power Steering Fluid

**SUPPLIER:** SOPUS Products  
 PO Box 4427  
 Houston, TX 77210 USA

**EMERGENCY PHONE:** 1-800-443-3562 / 877-276-7285

**PRODUCT USE:** High Performance Power Steering Fluid

**SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS**

Highly refined mineral oils and additives.  
 The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

**SECTION 3: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

**APPEARANCE AND ODOR:** Blue. Liquid. Slight hydrocarbon.  
**HEALTH HAZARDS:** High pressure injection under skin may cause serious damage including local necrosis.  
**SAFETY HAZARDS:** Not classified as flammable but will burn.  
**ENVIRONMENTAL HAZARDS:** Not classified as dangerous for the environment.

**POTENTIAL HEALTH EFFECTS**

**EYES:** May cause slight irritation to eyes.

**SKIN:** Prolonged or repeated skin contact without proper cleaning can clog pores of the skin resulting in disorders such as oil acne/folliculitis.

**INGESTION:** Low toxicity if swallowed.

**INHALATION:** Under normal conditions of use, this is not expected to be a primary route of exposure.

**AGGRAVATED MEDICAL CONDITION:** Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.

**ENVIRONMENTAL HAZARDS:** Not classified as dangerous for the environment.

**SECTION 4: FIRST AID MEASURES**

**GENERAL INFORMATION:** Not expected to be a health hazard when used under normal conditions.

**SKIN:** Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.

**EYES:** Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

**INGESTION:** In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

**INHALATION:** No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

**NOTES TO PHYSICIAN:** Treat symptomatically. High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function.

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## SECTION 5: FIRE-FIGHTING MEASURES

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Clear fire area of all non-emergency personnel.

**FLASH POINT:** Typical 190 °C / 374 °F (PMCC / ASTM D93)  
**UPPER / LOWER:** Typical 1-10% (V) (based on mineral oil)  
**AUTO IGNITION TEMPERATURE:** >320 °C / 608 °F  
**SPECIFIC HAZARDS:** Hazardous combustion products may include: A complex mixture of airborne solid and liquids particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

**EXTINGUISHING MEDIA:** Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water in a jet.

**PROTECTIVE EQUIPMENT FOR EMERGENCY PERSONNEL:** Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.

**PROTECTIVE MEASURES:** Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination.

**CLEAN UP METHODS:** Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

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## SECTION 7: HANDLING AND STORAGE

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**GENERAL PRECAUTIONS:** Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**HANDLING AND STORAGE:** Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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**EXPOSURE CONTROLS:** The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

**PPE :** Personal Protective Equipment should meet recommended national standards.

**RESPIRATORY PROTECTION:** No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.

**EYE PROTECTION:** Wear safety glasses or full face shield if splashes are likely to occur.

**SKIN PROTECTION:** Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. US: F739 / Europe: EN374) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

**PROTECTIVE CLOTHING:** Skin protection not ordinarily required beyond standard issue work clothes

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE:</b>	Blue. Liquid.
<b>ODOR:</b>	Slight hydrocarbon.
<b>pH AS SUPPLIED:</b>	N/A
<b>BOILING POINT:</b>	>280 °C / 356 °F estimated value(s)
<b>POUR POINT:</b>	Typical -30 °C / -22 °F
<b>FLASH POINT:</b>	Typical 190 °C / 374 °F (PMCC / ASTM D93)
<b>UPPER / LOWER FLAMMABILITY:</b>	Typical 1-10% (V) (based on mineral oil)
<b>AUTO-IGNITION TEMPERATURE:</b>	>320 °C / 608 °F
<b>VAPOR PRESSURE:</b>	<0.5 Pa at 20 °C / 68 °F (estimated value(s))
<b>VAPOR DENSITY (AIR=1):</b>	>1 (estimated value)
<b>DENSITY:</b>	Typical 877 kg/m <sup>3</sup> at 15 °C / 59 °F
<b>WATER SOLUBILITY:</b>	Negligible.
<b>EVAPORATION RATE:</b>	N/A

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## SECTION 10: STABILITY AND REACTIVITY

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<b>STABILITY:</b>	Stable.
<b>CONDITIONS TO AVOID:</b>	Extremes of temperature and direct sunlight.
<b>MATERIALS TO AVOID:</b>	Strong oxidizing agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Hazardous decomposition products are not expected to form during normal storage.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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<b>TOXICOLOGICAL INFORMATION:</b>	Information given is based on data on the components and the toxicology of similar products.
<b>ACUTE ORAL TOXICITY:</b>	Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
<b>ACUTE DERMAL TOXICITY:</b>	Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit
<b>ACUTE INHALATION TOXICITY:</b>	Not considered to be an inhalation hazard under normal conditions of use.
<b>SKIN IRRITATION:</b>	Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
<b>EYE IRRITATION:</b>	Expected to be slightly irritating.
<b>RESPIRATORY IRRITATION:</b>	Inhalation of vapours or mists may cause irritation.
<b>SENSITISATION:</b>	Not expected to be a skin sensitiser.
<b>REPEATED DOSE TOXICITY:</b>	Not expected to be a hazard.

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

**ACUTE TOXICITY:** Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 >100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

**MOBILITY:** Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.

**PERSISTENCE / DEGRADABILITY:** Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

**BIOACCUMULATION:** Contains components with the potential to bioaccumulate.

**OTHER ADVERSE EFFECTS:** Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.

**LOCAL LEGISLATION:** Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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## SECTION 14: TRANSPORT INFORMATION

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**U.S. DEPARTMENT OF TRANSPORTATION (49CFR):** This material is not subject to DOT regulations under 49 CFR Parts 171-180.

**IMDG:** This material is not classified as dangerous under IMDG regulations.

**IATA (Country variations may apply):** This material is not classified as dangerous under IATA regulations.

**SECTION 14 NOTES:** Refer to MSDS# KR-26-0710 / KSE Elixer Power Steering Fluid For Details.

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## SECTION 15: REGULATORY INFORMATION

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**REGULATORY INFORMATION:** The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

**U.S. FEDERAL REGULATIONS:** DSL - All components listed. EINECS - All components listed or polymer exempt. TSCA - All components listed.

**SARA HAZARD CATEGORIES:** No SARA 311/312 Hazards.

**STATE REGULATIONS:** This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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## SECTION 16: OTHER INFORMATION

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**OTHER INFORMATION:** The information in this document should be made available to all who may handle the product.

**FIRE, REACTIVITY:** 0,1,0

**PREPARATION INFORMATION:** OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**DISCLAIMER:** The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

**QUESTIONS:** Questions regarding this document may be placed to the following:

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