Warsaw, Poland 03.01.2007

Material safety data sheet (MSDS)
ceramizer for hydraulic power steering systems

1. Identification of product and company

Product trade name: CERAMIZER – additive lubrication for hydraulic power steering systems regeneration.
Card No. : KC-004/2004
Updated: 18.07.2010
Manufacturer: Vidar, ul. Czerniakowska 58, 00-717 Warsaw, Poland
Contact telephone: +48 22 4980908
Website: www.ceramizer.com

2. COMPOSITION/ INFORMATION OF INGREDIENTS

Composition: Mixture of highly refined mineral oils and processed additives.
Highly refined oil base > 25 %. Mixture of semisolid hydrocarbons mainly n-paraffin > 65 %.
Oil base may consists of the following: CAS: 64742-54-7, CAS: 64742-55-8, CAS: 64742-65-0.
Refined additives: < 10 %
Dangerous components: components comprising product are not on the list of dangerous and harmful substances.
Product consists of substances of 0,1% mass or more, marked with T1 or T symbol or substances of 1% mass or more, marked Xn or Xi symbol.

3. HAZARD IDENTIFICATION

Main dangers: Product has not been classified as dangerous. Any operations shall comply with effective safety and fire regulations; on account of limited biodegradation product may be dangerous for environment and life forms if improper applied or spilled.
Eye contact: Product may cause mild, temporary irritation. Wash eyes immediately with water for 15 minutes. In case of irritation consult the doctor.
Skin contact: Long contact with skin may cause cuticle degreasing action, irritation and dermatitis. Wash with water and soap. Do not apply organic solvents like: paraffin oil, naphtha and other light distillers.
Swallowing: In case of swallowing the alimentary canal irritation may follows. If deterioration follows consult the doctor.
Inhalation: When exposed to vapour or mist of heated product the respiratory tract irritation may follows, provide access to fresh air. If deterioration follows consult the doctor. Because of poor volatility in surrounding temperature the product is not harmful.

4. FIRST AID PROCEDURE

Eyes: Flush with clean water, at least for 15 minutes. Consult the doctor.
Skin: Wash with water and soap.
Swallowing: DO NOT CAUSE VOMITING. Wash oral cavity. Consult the doctor.
Additional information: Notes for the doctor: Treat according to diagnosed symptoms.

5. FIRES FIGHTING MEANS

Extinguishers: Carbon dioxide, extinguishing powder, foam, sand or soil. Do not use water. Water may be applied only for the purpose of cooling hot surfaces.
Fire extinguishing procedure: Respiratory apparatus and complete protective clothing is recommended.

6. PRECAUTIONS AGAINST SPILLAGE

Personal protective equipment: Standard protective clothing. During operations apply hand protective cream.
Precautions: Prevent against contact with waste sewage.
Environmental precautions: Clear away and utilize.

7. SAFE HANDLING AND STORING

Safe handling: With respect to manufacturer notes.
Storing: Product shall be stored in warehouse and in closed original package providing protection against pollution or water. Product shall be stored away from fire and heat sources.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Allowed concentration: NDS-5mg/m³
Hand protection: Protective gloves resistant to oil and protective cream.
Eye protection: Protective glasses .
Protective clothing: Used in oil industry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid.
Colour: Brown.
Odour: Specific for oil product.
Molecular mass: Around 700.
Specific gravity: 0,900-1,000 kg/dm²
Boiling temperature: > 250º C
Water solvency: Highly poor.
Other solvents: Petrol, xylene, etc, organic solvents: carbon chemokine, chloroform, ether.
Volatility compared to ether: Highly poor.
Hazard class: IV (beyond classification).
Ignition temperature: > 250º C
Ignition limit: A lower limit.

10. STABILITY AND REACTIVITY

Stability: Stable in normal conditions.
Conditions to avoid: Overheating, contact with other oxidants, contact with fire.
Dangerous decomposition products: Smoke, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Nontoxic product.
Eyes: Medium influence, staying in mist or oil fog may cause mild irritation.
Skin: Prolonged contact with skin may cause reddening, swelling, inflammation of skin.
Respiratory tract: Vapour inhalation of heated product may cause irritation of digestive tract and mucous membrane.

12. ECOLOGICAL INFORMATION

Mobility: Non-volatile product, insoluble in water and cumulative in soil. No capability to migrate in soil. Insoluble in water.
Durability/biodegradability: Product partly or poorly biodegradable.
Bioacumulation: To the best of our knowledge we have no data confirming bioacumulation.

13. DISPOSAL

Utilization: With respect to effective, legal, local and state regulations. Recommended method - burning.
Utilization of package: Package shall be cleaned with proper methods. It may be used for other purposes or utilized according to effective regulations.

14. TRANSPORT INFORMATION

Transport: No dangerous product, does not subject to RID/ADR, IMTG, (IMCO), UN and IATA regulations with reference to dangerous products transport. May be transported with any means of transport.

15. REGULATORY INFORMATION

Labelling and classification: No dangerous product pursuant to European Union criteria, does not require special labeling.

The above information was provided on grounds of Welfare and Health Minister Order Book of Acts No. 02.140 later 1171 of 03 September 2002 and on grounds of the current, best knowledge was used for the purpose of product determination with reference to impact on health, security and environmental protection regulations. On Ceramizer Safety Card drawing up we took into account proper use for product.
Any user shall be held liable for any other use of product.
This MSDS supplements Technical Data Card/Label but does not substitute it.
Under any condition users are exempted from knowledge and compliance with legal provisions relating to business activity.
User is obliged to comply with any international, state and local regulations and provisions.

Source literature: Standards

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