

MATERIAL SAFETY DATA SHEET



1. PRODUCT AND COMPANY IDENTIFICATION INFORMATION

PRODUCT NAME VASOIL VASVANIA EP 2

PRODUCT USE High quality lithium base grease.

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EMERGENCY USE PHONE No 112

2. COMPOSITION/INFORMATION ON INGREDIENTS

No component is present at sufficient concentration to require a hazardous classification. This product is produced by highly refined mineral oils (IP 346 DMSO extract < 3%) and appropriate performance additives.

CHEMICAL NAME	C.A.S. No	EINECS No	Symbol / R-Phrases	Wt%
Styrenated diphenylamine	68442-68-2	270-485-3	N, R53	0 - 1
Zinc alkyl dithiophosphate.	68649-42-3	272-028-3	Xi, N, R41, R51/53	1 - 5

3. HAZARDS IDENTIFICATION

This material is not considered to be hazardous under normal use conditions, but it should be handled in accordance with good industrial hygiene and safety practices.

PHYSICAL/CHEMICAL DANGERS Not classified as dangerous or flammable. Its combustion, however, may be possible.

DANGERS TO HUMANS Not classified as dangerous.

EYES Expected to cause no more than minor eye irritation.

SKIN Expected to cause no more than minor skin irritation following prolonged or frequently repeated contact.

INHALATION Lingering aeration can cause respiratory tract and throat irritation. Anyhow, the regular time of exposure, during handling and storage of the product, is very short to cause any problem.

INGESTION If swallowed can cause dizziness, sleepiness, sickness, vomit.

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4. FIRST AID MEASURES

EYES	Rinse immediately with plenty of water for at least 10 minutes. In case of eye irritation, get medical attention.
SKIN	No specific first aid measures are required because this material is not expected to cause skin irritation. As a precaution, remove clothing and shoes, if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing gear, or wash thoroughly, if possible, before re-use.
INHALATION	No specific first aid measures are required because this material is not expected to be harmful, if inhaled. If a person inhales the material in excessive levels, remove it to fresh air. Get medical assistance if coughing or respiratory discomfort occurs and insists.
INGESTION	Affected person should drink 500 - 800 ml of water. Do not induce vomiting. Get medical assistance.

5. FIRE FIGHTING MEASURES

CLASSIFICATION	Not classified as flammable or combustible.
FLASH POINT (COC)	>250°C typical value.
EXTINGUISHING MEASURES	CO ₂ or Dry chemical – Foam – Water fog.
EXTINGUISHING MEASURES <u>NOT</u> TO BE USED	
FIRE FIGHTING PROCESS	In case of a fire in progress, do not enter a confined area without any protection equipment, including a self-containing breathing apparatus.
COMBUSTION PRODUCTS	Highly dependent on combustion conditions. If burnt, a mixture of liquids, airborne solids, and gases, including CO ₂ , CO, Ca, N, S, P, and Zn oxides, and other unidentified organic compounds will be produced.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS	Stop the source of the release, if possible, without any further risk. Contain the leak to prevent further contamination of soil, surface water or ground water. Clean up the spill as soon as possible by using appropriate techniques, such as the application of non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place the contaminated material in disposable containers and dispose of in a manner consistent with existing applicable regulations. In case of a spillage at sea, approved dispersants may be used, if authorized by the appropriate government/regulatory authorities.
PERSONAL PRECAUTIONS	Eliminate all sources of ignition in vicinity of spilled material.

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7. HANDLING AND STORAGE

ENVIRONMENTAL PRECAUTIONS	Prevent from entering into drainage systems, rivers and bodies of water. Absorb liquid with sand and or earth. Sweep up and remove to suitable container for disposal.
PERSONAL PRECAUTIONS	Avoid contact with skin and eyes. Wear a full-face visor or chemical goggles as appropriate. Wash hands thoroughly after contact. Good working practices and high standards of personal hygiene must be maintained at all times.
HANDLING-STORAGE	Keep in a cool, dry, well-ventilated place. Use properly labelled and closed containers. Avoid direct contact with sunlight, other heat sources, and strong oxidizing agents. Containers are not designed to contain pressure. Do not use pressure to empty containers as it may rupture with explosive force. Empty containers retain product residues (solid, liquid, and/or vapour) that can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reformer, or disposed of properly.
STORAGE TEMPERATURE	From 0°C up to 50°C
STORAGE MATERIALS	For the containers, mild steel or high-density polyethylene. Avoid PVC.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES	This material contains base oil. OSHA Permissible Exposure Limit (PEL) of 5 mg/m ³ (for mineral oil mist). OSHA Short Term Exposure Limit (STEL) is 10mg/m ³ .
HYGIENE MEASURES	Wash hands after handling compounds, or before eating, smoking, using the lavatory, as well as at the end of the day.
CONTROL MEASURES	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. All chemicals should be assessed as to their risk to health and appropriate control measures should be put in place to prevent or adequately control exposure. A hierarchy of control measures exist (e.g. elimination, substitution, general ventilation, containment, systems of work, changing the process or activity) that must be considered before the use of personal protective equipment. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted on selection and appropriate standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.
SKIN PROTECTION	No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: Nitrile Rubber, Silver Shield, Viton.
EYE / FACE PROTECTION	No special eye protection is normally required. Where splashing is

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possible, wear safety glasses with side shields as a good safety practice.

RESPIRATORY PROTECTION

No respiratory protection is normally required. In case of an oil mist generation, determine if airborne concentrations are below the OSHA Permissible Exposure Limit (PEL) of 5 mg/m³ for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

9. ΧΗΜΙΚΕΣ ΚΑΙ ΦΥΣΙΚΕΣ ΙΔΙΟΤΗΤΕΣ

NLGI No	ASTM	2
DIN 51825 CLASSIFICATION	-	KP2K-30
COLOUR	-	RED
WORK PENETRATION	D 217	265-295
POUR POINT (°C)	D 566	200
FLASH POINT (°C)	D 92	250
OPERATION TEMPERATURE (°C)	-	-30 to +130

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

This material is considered stable under normal ambient, and anticipated storage and handling conditions of temperature and pressure.

INCOMPARTIBILITY

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS POLYMERISATION

Polymerisation will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS

Not expected to occur, if stored properly.

11. TOXICOLOGY INFORMATION

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer, or the European Commission.

EYE IRRITATION

Expected to be slightly irritating.

SKIN IRRITATION

Expected to be slightly irritating.

INHALATION

Negligible hazard at ambient temperature.

INGESTION

Minimal toxicity.

REPRODUCTIVE TOXICITY

Not considered to be toxic in reproduction.

CARCINOGENESIS

Product is based on mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Other components are not known to be associated with carcinogenic effects.

MUTAGENICITY

Not considered to be a mutagenic hazard.

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12. ECOLOGICAL INFORMATION

PERSISTENCE / DEGRADABILITY Inherently biodegradable.

GROUND MOBILITY Spillages may penetrate the soil causing ground water contamination.

BIOACUMMULATION POTENTIAL This product is not expected to bioaccumulate through food chains in the environment.

ENVIRONMENTAL HAZARDS Unlikely to be harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS Where possible, arrange for product to be recycled, according to Directive 75/439 EEC. If disposed of, an authorized person/ licensed waste disposal contractor must be contacted in accordance with local regulations.

14. TRANSPORT INFORMATION

ICAO, IATA, ADR, RID, UN Not classified as dangerous during transportation.

15. REGULATORY INFORMATION

E.C. (E.I.N.E.C.S.) Not classified.

LABEL RQUIREMENTS According to Directives 1999/45 EEC and 67/548 EEC.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.