

# Material Safety Data Sheet

## PM Xeramic Hydraulic Valve Lifter Additive

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product name** : PM Xeramic Hydraulic Valve Lifter Additive  
**Article number** : 20129  
**Manufacturer / Supplier** : Petromark Automotive Chemicals BV  
 Lijndenweg 25a  
 PO Box 294  
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 +31 (0)251 211397  
**Further information obtainable from** : Research & Development / r.tetteroo@petromark.nl  
**Information in case of Emergency** : Tel: +31(0)251-211397 (only at office hours 9:00 - 17:30)

### 2. HAZARDS IDENTIFICATION

**Classification of substances or mixture** : Classified as dangerous under EU Criteria.  
**Main hazards** : This product is considered to be hazardous and contains hazardous components. Dangerous for the environment.  
**Adverse physicochemical effects and symptoms** : Not expected to be a fire/explosion hazard under normal conditions of use.  
**Adverse human health effects and symptoms** : Sensitising substances; allergic reactions possible.  
**Adverse environmental effects and symptoms** : R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**Other adverse hazards** : During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. Avoid prolonged contact with used motor oil. Overexposure to oil mist may cause respiratory irritations. Oil mist deposited on surfaces may cause slip hazard.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical characterization** : Mixture of mineral base oils (PCA-content < 3 % -IP 346) and additives.  
**Composition of the mixture:**

Substance name	Value(s)	CAS-nr.	EG-nr.	EC-Index	Classification
Base oil: distillates hydrotreated heavy paraffinic	60 - 70%	64742-54-7	265-157-1	649-467-00-8	-
Polyolefine polyamine succinimide, Polyol	5 - 10%	-	-	-	R53
Calcium branched chain alkyl phenate sulphide	2 - 4%	90480-91-4	291-829-9	-	R53
Zinc alkyl dithiophosphate	2 - 4%	68649-42-3	272-028-3	-	Xi; R41 N; R51-53
Calcium long chain alkaryl sulphonate	0.1 - 1%	90194-27-7	290-636-7	-	R43 R53

**Other information** : See § 16 for full text of all R-phrases.

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#### 4. FIRST AID MEASURES

<b>General information</b>	: In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
<b>First aid:</b>	
- After inhalation	: Assure fresh air breathing. If you feel unwell, seek medical advice.
- After contact with skin	: Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water. Never use kerosene or gasoline for cleaning the skin.
- After contact with the eyes	: Rinse immediately with plenty of water. Seek medical attention if irritation develops.
- After ingestion	: Do not induce vomiting. Seek medical attention immediately. The ingestion of lubricating oils is an unlikely event. No specific therapy is indicated in view of the very low toxicity of the base oil(s) and other components. Treat with supportive measures as appropriate to the patient's condition.
<b>Note to physician</b>	: Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<b>Prevention</b>	: Keep public away from danger area.
<b>Suitable extinguishing media</b>	: Water fog. Carbon dioxide. Foam. Dry chemical product.
<b>Unsuitable extinguishing media</b>	: Do not use a heavy water stream.
<b>Special exposure hazards</b>	: Under fire conditions, hazardous fumes will be present.
<b>Special protective equipment for fire-fighters</b>	: Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Other information</b>	: Use water spray or fog for cooling exposed containers. Avoid fire-fighting water to enter environment.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	: Avoid all unnecessary exposure. Remove ignition sources. Equip cleanup crew with proper protection.
<b>Environmental precautions</b>	: Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
<b>Methods for cleaning up</b>	: Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.
<b>Other information</b>	: Spill area may be slippery.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	
<b>Precautions for safe handling</b>	: Avoid all unnecessary exposure. Ventilate area.
<b>Precautions to prevent fire &amp; explosions</b>	: Keep away from sources of ignition. No naked lights. No smoking.
<b>Storage:</b>	
<b>Specific design for storage rooms or vessels</b>	: Store this product in a dry location where it can be protected from the elements.
<b>Storage away from</b>	: Store in tightly closed, properly ventilated containers away from heat,

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sparks, open flame, strong oxidizers, radiations, and other initiators.  
Keep away from food, drink and animal feeding stuffs.

**Conditions of storage** : Keep at temperature not exceeding 50°C.

**Other information** : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Occupational exposure limit

**Values** : Time Weighted Average (TWA) 8 hours value for oil mist (mineral):  
5 mg/m<sup>3</sup>

##### Technical measures to prevent exposure

: Well-ventilated area.

##### Personal protective equipment:

- **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
- **Hand protection** : Wear suitable gloves resistant to chemical penetration. (EN 374)
- **Eye protection** : Chemical goggles or safety glasses. (EN 166)
- **Skin protection** : Wear suitable protective clothing.
- **Others** : Do not wear leather soled shoes.

##### Environmental exposure controls

: Avoid release to the environment.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

##### Appearance:

**Physical state** : Oily liquid.  
**Colour** : Yellow-brown.  
**Odour** : Characteristic

##### Important health, safety and environmental information:

**Density @ 15°C** : 910 kg/m<sup>3</sup>  
**Solubility in water** : Negligible.

#### 10. STABILITY AND REACTIVITY

**Physico-chemical stability** : Stable under normal conditions.  
**Hazardous reactions** : None under normal conditions.  
**Conditions to avoid** : Extremely high or low temperatures.  
**Materials to avoid** : Strong oxidizing agents.  
**Hazardous decomposition products** : None under normal conditions.

#### 11. TOXICOLOGICAL INFORMATION

**Toxicological information** : No specific toxicity data on this product available.

**Effects and symptoms from short-term exposure:**

- **After inhalation** : Inhalation of vapours may cause respiratory irritation.
- **After ingestion** : Ingestion unlikely.
- **After skin contact** : Slight skin irritant. Prolonged or repeated skin contact with the material will remove natural oils and could lead to a dermatitis.
- **After eye contact** : Slight eye irritant upon direct contact.

**Effects and symptoms from**

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**long-term exposure:**

**Sensitising by skin contact** : Sensitising substances; allergic reactions possible.  
**Sensitising by inhalation** : No sensitization effects known.  
**Other toxicological information:** No data available

<b>12. ECOLOGICAL INFORMATION</b>
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**Ecotoxicity** : This product contains hazardous components for the aquatic environment.  
**Mobility** : No data available  
**Persistence and degradability** : Not readily biodegradable.  
**Bioaccumulative potential** : No data available  
**Other adverse effects** : No data available

<b>13. DISPOSAL CONSIDERATIONS</b>
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**Waste Disposal** : Dispose in a safe manner in accordance with local/national regulations.  
**Waste-disposal procedures** : See Directive 2001/118/EC  
**Industrial waste number (EURAL)** : 13 02 00 - waste engine, gear and lubricating oils. 13 02 05 - mineral-based non chlorinated engine, gear and lubricating oils. 15 01 10 - packaging containing residues of or contaminated by dangerous substances.

<b>14. TRANSPORT INFORMATION</b>
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**General information** : Not regulated.

<b>15. REGULATORY INFORMATION</b>
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**EC Labelling:**

**Hazard symbols & hazard Statements** : None.  
**R Phrase(s)** : R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**S Phrase(s)** : S35 This material and its container must be disposed of in a safe way.  
 S59 Refer to manufacturer/supplier for information on recovery/recycling.  
 S61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

**Special labelling for certain Mixtures** : Contains: Calcium long chain alkaryl sulphonate. May produce an allergic reaction. Material Safety Data Sheet available for professional users on request.

**National Regulations (Germany)** : Water Hazard Class 1: low hazard to waters (acc. VwVwS)

<b>16. OTHER INFORMATION</b>
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**Relevant R-Phrases listed in Heading 2 & 3** : R41 Risk of serious damage to eyes.  
 R43 May cause sensitization by skin contact.  
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R53 May cause long-term adverse effects in the aquatic environment.

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**Further information** : r.tetteroo@petromark.nl

**Sources of key data used to compile the Safety Data Sheet** : Concawe Report 01/53, Concawe Report 01/54, Concawe Report 05/87 and Regulation (EC) No 1907/2006 of the European Parliament and of the Council

**Revision Indicators** : None.

The contents and format of this MSDS are in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

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