



Safety data sheet according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Lubricant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Petromark Automotive Chemicals
Rooswijkweg 316, 1951 ME Velsen-Noord, The Netherlands
www.petromark.eu • info@petromark.eu
Tel. +31 (0)251 211397
- **Further information obtainable from:**
Petromark Automotive Chemicals: info@petromark.eu
- **1.4 Emergency telephone number:**
Petromark Automotive Chemicals: Tel. +31 (0)251 211397

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Aerosol 3 H229 Pressurised container: May burst if heated.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS09

- **Signal word** Warning
- **Hazard statements**
H229 Pressurised container: May burst if heated.
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P273 Avoid release to the environment.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P391 Collect spillage.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)



Safety data sheet according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack

(Contd. of page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture: consisting of the following components: mineral oil, lubricant, and additives

- **Dangerous components:**

CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32-xxxx	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	25-50%
CAS: 811-97-2 EINECS: 212-377-0 Reg.nr.: 01-2119459374-33-xxxx	1,1,1,2-tetrafluoroethane substance with a Community workplace exposure limit	1 - 2.5%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Personal protection for the First Aider.
Take affected persons out into the fresh air.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Remove contact lenses, if present and easy to do.
Continue rinsing. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
Coughing
irritating effect
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray.
Foam
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Nitrogen oxides (NO_x)
In case of fire, the following can be released:
Carbon monoxide (CO)

(Contd. on page 3)



Safety data sheet according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack

(Contd. of page 2)

Danger of bursting by heating.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Cool endangered receptacles with water spray and remove it out of emergency area if possible.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective clothing.

Avoid formation of dust.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

· **Information about fire - and explosion protection:**

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Store in a cool location under dry conditions in well sealed receptacles

Observe official regulations on storing packagings with pressurised containers.

Do not store in gangways or stairways.

· **Information about storage in one common storage facility:**

Do not store together with oxidizing and selfigniting materials.

· **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Do not store together with oxidizing and self-igniting material.

GB

(Contd. on page 4)



Safety data sheet according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

811-97-2 1,1,1,2-tetrafluoroethane

WEL (Great Britain) Long-term value: 4240 mg/m³, 1000 ppm

· **DNELs**

1314-13-2 zinc oxide

Oral	cstm, long, system, oral	0.83 mg/kg/d (mouse)
Dermal	wrks, long, system	83 mg/kg/d (rat)
	cstm, long, system	83 mg/kg/d (rat)
Inhalative	wrks, long, system	5 mg/m ³ (mouse)
	cstm, long, local	2.5 mg/m ³ (mouse)

811-97-2 1,1,1,2-tetrafluoroethane

Inhalative	wrks, long, system	13936 mg/m ³ (mouse)
	cstm, long, system	2476 mg/m ³ (mouse)

· **PNECs**

1314-13-2 zinc oxide

Oral	fresh water	0.021 mg/l (daphnia)
	sediment (fresh water)	117.8 mg/(kg dw) (daphnia)
	STP	0.1 mg/l (daphnia)
	soil	35.6 mg/(kg dw) (daphnia)
	sediment (marine water)	56.5 mg/(kg bw) (daphnia)
	marine water	0.006 mg/l (daphnia)

811-97-2 1,1,1,2-tetrafluoroethane

Oral	fresh water	0.1 mg/l (daphnia)
	sediment (fresh water)	0.75 mg/(kg dw) (daphnia)
	STP	73 mg/l (daphnia)
	marine water	0.01 mg/l (daphnia)
	intermittent release	1.0 mg/l (daphnia)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Short term filter device:

Filter P2

· **Protection of hands:**

Preventive skin protection by use of skin-protecting agents is recommended.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

(Contd. on page 5)



Safety data sheet according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack

(Contd. of page 4)

· Material of glovesRecommended thickness of the material: ≥ 0.5 mm

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling**· Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Appearance:****Form:** paste-like**Colour:** Red**· Odour:** Characteristic**· Odour threshold:** Not determined.**· pH-value:** Not determined.**· Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** Undetermined.

Not applicable, as aerosol.

· Flash point: >280 °C**· Flammability (solid, gaseous):** Not applicable.**· Ignition temperature:****Decomposition temperature:** Not determined.**· Self-igniting:** Product is not selfigniting.**· Danger of explosion:** Product does not present an explosion hazard.**· Explosion limits:****Lower:** 3.0 %**Upper:** 16 %**· Vapour pressure:** Not applicable.**· Density at 20 °C:** 1.09 g/cm³**· Relative density** Not determined.**· Vapour density** Not determined.**· Evaporation rate** Not applicable.**· Solubility in / Miscibility with
water:**

Not miscible or difficult to mix.

(Contd. on page 6)



Safety data sheet according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack

(Contd. of page 5)

- **Partition coefficient (n-octanol/water):** >6
- **Viscosity:**
 - Kinematic:** Not determined.
 - Organic solvents:** 0.0 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** Danger of bursting.
- **10.4 Conditions to avoid** Heating, open flame, ignition sources.
- **10.5 Incompatible materials:** Oxidants.
- **10.6 Hazardous decomposition products:** No decomposition if used according to specifications.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:**1314-13-2 zinc oxide**

Oral	LD50	7950 mg/kg (mouse)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity** No further relevant informations available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** May be accumulated in organism
- **12.4 Mobility in soil** Readily absorbed into soil.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

(Contd. on page 7)



Safety data sheet according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack

(Contd. of page 6)

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** Toxic to aquatic organisms. Toxic to soil organisms.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

12 00 00	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01 00	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 12*	spent waxes and fats
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1950

· **14.2 UN proper shipping name**

· **ADR**

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

· **IMDG**

AEROSOLS

· **IATA**

AEROSOLS, non-flammable

(Contd. on page 8)

GB

Safety data sheet
according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack

(Contd. of page 7)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 2 5A Gases.
· **Label** 2.2

· **IMDG, IATA**



· **Class** 2.2
· **Label** 2.2

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances:
zinc oxide

· **Special marking (ADR):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Gases.

· **Danger code (Kemler):**

-

· **EMS Number:**

F-D,S-U

· **Stowage Code**

SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

· **Segregation Code**

SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

· **Transport category**

3

· **Tunnel restriction code**

E

(Dangerous goods in "LQ" with more than 8 tons gross mass of LQ falls under the tunnel restriction code "E")

(Contd. on page 9)



Safety data sheet according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack

(Contd. of page 8)

· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.2, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ctsm, long, system: general population, long-term exposure, systematic effects
cstm, short, system: general population, acute / short-term exposure, systematic effects
wrks, long, system: workers, long-term exposure - systemic effects
wrks, short, system: workers, acute / short-term exposure - systemic effects
cstm, long, local: general population, long-term exposure, local effects
STP: sewage treatment plant
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Aerosol 3: Aerosols – Category 3

(Contd. on page 10)



Safety data sheet
according to 1907/2006/EC, Annex II

Printing date 08.06.2016

Version number 1

Revision: 08.06.2016

Trade name: 20157 PM XERAMIC Alu Paste - Pressurepack

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
· *** Data compared to the previous version altered.**

(Contd. of page 9)

GB