

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.10.2020

Revision: 27.10.2020

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

- **1.1 Product identifier**
- **Trade name:** PM Xeramic® Air Filter Cleaner
- **Article number:** 20307
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Cleaner solvent
- **1.3 Details of the supplier of the safety data sheet**
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:** Research & Development: info@petromark.eu
- **1.4 Emergency telephone number:** During normal business hours: 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**



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- **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**



GHS02 GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
amiden, C12-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-
Fatty alcohol polyglycolether
Ethoxylated Fatty Alcohol
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H318 Causes serious eye damage.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.10.2020

Revision: 27.10.2020

Trade name: PM Xeramic® Air Filter Cleaner

(Contd. of page 1)

- P251 Do not pierce or burn, even after use.
 P260 Do not breathe spray.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / eye protection.
 P301+P310 IF SWALLOWED: Immediately call a doctor.
 P331 Do NOT induce vomiting.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P403 Store in a well-ventilated place.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- **Additional information:**
 EUH066 Repeated exposure may cause skin dryness or cracking.
 - **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Cleansing agent

- **Dangerous components:**

EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Hydrocarbons,C10-C13,n-alkanes,cyclic,<2%aromates, Benzene <0.1% Asp. Tox. 1, H304	50-<75%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8), Note K) Flam. Gas 1, H220; Press. Gas (Comp.), H280	10-<25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1, H220; Press. Gas (Comp.), H280	2.5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8), Note K) Flam. Gas 1, H220; Press. Gas (Comp.), H280	1-<2.5%
CAS: 90622-74-5 EINECS: 292-477-9 Reg.nr.: 01-2119489409-22	amiden, C12-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)- Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	1-<2.5%
CAS: 68439-50-9 NLP: 500-312-3 Reg.nr.: 01-2119487984-16	Fatty alcohol C12-C14 with approx. 2 moles EO Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 3, H412	≥0.25-<1%

- **Ingredients according to detergents guideline 648/2004/EC**

aliphatic hydrocarbons	≥15 - <30%
non-ionic surfactants	<5%

- **Additional information:** The text of the hazard statements mentioned here can be found in chapter 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **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.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

(Contd. on page 3)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date: 27.10.2020

Revision: 27.10.2020

Trade name: PM Xeramic® Air Filter Cleaner

(Contd. of page 2)

- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **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:**
Water haze
Fire-extinguishing powder
Carbon dioxide
Alcohol resistant 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)
Carbon monoxide (CO)
Sulphur dioxide (SO₂)
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **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.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**
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** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
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 in a cool location.
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:**
Observe official regulations on storing packagings with pressurised containers.

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date: 27.10.2020

Revision: 27.10.2020

Trade name: PM Xeramic® Air Filter Cleaner

(Contd. of page 3)

- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

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:**

Hydrocarbons, C10-C13, n-alkanes, cyclic, <2% aromates, Benzene <0.1%

TLV Short-term value: 1200, 184

· **DNELs**

90622-74-5 amidin, C12-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-

Oral	DNEL Long term-systemic	6.25 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	2.5 mg/kg bw/day (Consumer)
		4.16 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-local	0.056 mg/cm ² (Consumer)
		0.09 mg/cm ² (Worker)
	DNEL Long term-systemic	21.73 mg/m ³ (Consumer)
		73.4 mg/m ³ (Worker)

· **PNECs**

90622-74-5 amidin, C12-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-

PNEC Freshwater	0.007 mg/l (Undefined)
PNEC Marine water	0.0007 mg/l (Undefined)
PNEC Freshwater sediment	0.035 mg/l(dry weight) (Undefined)
PNEC Intermittent release	0.024 (Undefined)
PNEC Soil	0.153 ug/kg (Undefined)
PNEC Sewage Treatment Plant	830 mg/l (Undefined)
PNEC Marine water sediment	mg/l(dry weight) (Undefined)

- **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.
Do not inhale gases / fumes / aerosols.

- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Filter A2/P2

- **Protection of hands:**
Wear gloves for the protection against chemicals according to EN 374



Protective gloves

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

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.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.10.2020

Revision: 27.10.2020

Trade name: PM Xeramic® Air Filter Cleaner

(Contd. of page 4)

Nitrile rubber, NBR

 Recommended thickness of the material: ≥ 0.5 mm

· Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of at least 240 minutes, with the preference given to a breakthrough time greater than 480 minutes. For short-term or splash guard we recommend the same. We are aware that suitable gloves that offer this level of protection may not be available. In that case, a shorter breakthrough time are acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance of the gloves against a chemical substance, because this depends on the exact composition of the material from which the gloves are made.

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

· Eye protection:

Safety glasses



Tightly sealed goggles

· Body protection: Use protective suit. (EN-13034/6)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information
· Appearance:

Form:	Aerosol
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	-44.5 °C

· Flash point: -97 °C

· Flammability (solid, gas): Not applicable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower:	0.7 Vol %
Upper:	10.9 Vol %

· Vapour pressure at 20 °C: 2100 hPa

· Density at 20 °C:	0.708 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.

· Solubility in / Miscibility with water: Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.10.2020

Revision: 27.10.2020

Trade name: PM Xeramic® Air Filter Cleaner

(Contd. of page 5)

- **Viscosity:**
 - Dynamic:** Not determined
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 95.7 %

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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:**Hydrocarbons, C10-C13, n-alkanes, cyclic, <2% aromates, Benzene <0.1%**

Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>5000 mg/kg (Rabbit)
Inhalative	LC50 (4h)	4951 mg/l (Rat)

90622-74-5 amidin, C12-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-

Oral	LD50	>5000 mg/kg (Rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **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**Aquatic toxicity:****Hydrocarbons, C10-C13, n-alkanes, cyclic, <2% aromates, Benzene <0.1%**

EL0 (48h)	1000 mg/l (Daphnia magna)
EL0 (72h)	1000 mg/l (Pseudokirchneriella subcapitata)
LL0 (96h)	1000 mg/l (Onc)

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date: 27.10.2020

Revision: 27.10.2020

Trade name: PM Xeramic® Air Filter Cleaner

(Contd. of page 6)

90622-74-5 amidien, C12-18- en C18-onverzadigde, N,N-bis(hydroxyethyl)-

LC50	>1-10 mg/l (Brachydanio rerio)
NOEC (21 days)	>0.01-0.1 mg/l (Daphnia magna)
NOEC (28 days)	>0.1-1 mg/l (Oncorhynchus mykiss)
EC0	>100 mg/l (Pseudomonas putida)

- **12.2 Persistence and degradability** Not easily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
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.
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
 - **European waste catalogue**
- | | |
|-----|-----------|
| HP3 | Flammable |
|-----|-----------|
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, ADN, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
- **ADR, ADN** UN1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

· **14.3 Transport hazard class(es)**

· **ADR**



- **Class** 2.5F Gases.
- **Label** 2.1

(Contd. on page 8)

Safety data sheet


according to 1907/2006/EC, Article 31

Printing date: 27.10.2020

Revision: 27.10.2020

Trade name: PM Xeramic® Air Filter Cleaner

(Contd. of page 7)

<ul style="list-style-type: none"> · ADN · ADN/R Class: 2 5F 	
<ul style="list-style-type: none"> · IMDG, IATA 	
	
<ul style="list-style-type: none"> · Class 2.1 · Label 2.1 	
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA Void 	
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: No 	
<ul style="list-style-type: none"> · 14.6 Special precautions for user Warning: Gases. · Hazard identification number (Kemler code): - · 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. 	
<ul style="list-style-type: none"> · 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. 	
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. 	
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR · Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity · Tunnel restriction code D 	
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity 	
<ul style="list-style-type: none"> · UN "Model Regulation": UN 1950 AEROSOLS, 2.1 	

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 P3a FLAMMABLE AEROSOLS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

(Contd. on page 9)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 27.10.2020

Revision: 27.10.2020

Trade name: PM Xeramic® Air Filter Cleaner

(Contd. of page 8)

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **National regulations:**

Class	Share in %
NK	75-<100

· **VOC-CH** 95.70 %· **VOC-EU** 677.6 g/l· **Danish MAL Code** 5-3· **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.

· **Department issuing SDS:** Research & Development· **Contact:** info@petromark.eu· **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

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)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

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

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3