

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

Printing date 02.01.2017

Version number 1

Revision: 23.11.2016

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

- 1.1 Product identifier

- Trade name: **PULIMAX**

- 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 All purpose cleaner

- Uses advised against

The mixture is not recommended for industrial, professional and consumer applications not specified as relevant identified uses

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

MA-FRA S.p.A.

Via Aquileia, 44/46

20021 Baranzate (MI) ITALIA

mafra@mafra.it

Tel. +39 023569981

- Informing department: E-mail: lab@mafra.it

- 1.4 Emergency telephone number: Contact the local hospital or the poison control center closest to you

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- 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



GHS05

- Signal word Danger

- Hazard-determining components of labelling:

Ethoxy Alcohol C9-C11

- Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

- Precautionary statements

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

- 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 of substances**- Dangerous components:**

CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	5-15%
CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18	tetrapotassium pyrophosphate ⚠ Eye Irrit. 2, H319	<5%
CAS: 102-71-6 EINECS: 203-049-8	2,2',2''-nitrilotriethanol ⚠ Eye Irrit. 2, H319	<5%
CAS: 68439-46-3	Ethoxy Alcohol C9-C11 ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	<5%
CAS: 28348-53-0 EINECS: 248-983-7	sodium cumenesulphonate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	<2%
CAS: 61789-30-8	Acidi grassi di cocco ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	<2%
CAS: 68585-34-2	Lauryl ethere sulphate ⚠ Eye Irrit. 2, H319	<2%
CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 01-2119457892-27	sodium hydroxide ⚠ Met. Corr. 1, H290; Skin Corr. 1A, H314	<2%

- Regulation (EC) No 648/2004

phosphates, non-ionic surfactants, anionic surfactants, polycarboxylates

< 5%

perfumes (Alpha Hexyl Cinnamaldehyde)

- 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**- After inhalation** In case of unconsciousness bring patient into stable side position for transport.**- After skin contact** Instantly wash with water and soap and rinse thoroughly.**- After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.**- After swallowing** In case of persistent symptoms consult doctor.**- 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**CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Keep containers tightly sealed.
- **Information about protection against explosions and fires:** Protect from heat.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class**
- **Class according to regulation on inflammable liquids:** A III
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

111-76-2 2-butoxyethanol

WEL	Short-term value: 246 mg/m ³ , 50 ppm
	Long-term value: 123 mg/m ³ , 25 ppm
	Sk, BMGV

- **DNELs**

7320-34-5 tetrapotassium pyrophosphate

Oral	Long term-systemic	> 70 mg/Kg (Consumers)
Inhalative	Local long-term effects	2.79 mg/m ³ (Industrial Workers)
	Systemic long-term effects	0.68 mg/m ³ (Consumers)

- **PNECs**

111-76-2 2-butoxyethanol

PNEC STP	463 mg/L (STP)
Soft Water	8.8 mg/L (Water)
Sea water	0.88 mg/L (Water)

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Sediment (soft water)	34.6 mg/Kg (Water)
Sediment (sea water)	3.46 mg/Kg (Water)
7320-34-5 tetrapotassium pyrophosphate	
PNEC STP	50 mg/L (STP)
Soft Water	0.05 mg/L (Water)
Sea water	0.005 mg/L (Water)
Occasional Emission	0.5 mg/L (Water)
- Ingredients with biological limit values:	
111-76-2 2-butoxyethanol	
BMGV	240 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: butoxyacetic acid

- Additional information: The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- Personal protective equipment

- General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

- Breathing equipment: Not required.

- Protection of hands:

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



Protective gloves.

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

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

- Material of gloves

Rubber gloves

Nitrile rubber, NBR

Neoprene gloves

- 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:



Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form:

Fluid

Colour:

Yellow

- Odour:

Pleasant

- Odour threshold:

Not determined.

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- pH-value at 20 °C:	11 - 11.5
- Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	100 °C
- Flash point:	>90 °C
- Inflammability (solid, gaseous)	Not applicable.
- Ignition temperature:	240 °C
- Decomposition temperature:	Not determined.
- Self-inflammability:	Product is not selfigniting.
- Danger of explosion:	Product is not explosive.
- Critical values for explosion:	
Lower:	1.1 Vol %
Upper:	10.6 Vol %
- Vapour pressure at 20 °C:	23 hPa
- Density at 20 °C	1.055 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
- Partition coefficient (n-octanol/water):	Not determined.
- Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
- Solvent content:	
Organic solvents:	10.0 %
Water:	71.7 %
Solids content:	14.0 %
- 9.2 Other information	No further relevant information available.
- Additional information	
VOC / COV (%)	10.00 %

SECTION 10: Stability and reactivity

- 10.1 Reactivity Stable under normal conditions
- 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 that are relevant for classification:

111-76-2 2-butoxyethanol

Oral LD50 1480 mg/Kg (rat)

Dermal LD50 400 mg/Kg (rab)

7320-34-5 tetrapotassium pyrophosphate

Oral LD50 >2000 mg/Kg (mus)

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28348-53-0 sodium cumenesulphonate

Oral LD50 7000 mg/Kg (rat)

1310-73-2 sodium hydroxide

Oral LD50 2000 mg/Kg (rat)

60-12-8 beta-P.E.A.

Oral LD50 2230 mg/Kg (rat)

Dermal LD50 790 mg/Kg (rbt)

106-22-9 Citronellol

Oral LD50 3450 mg/Kg (rat)

Dermal LD50 2650 mg/Kg (rbt)

32210-23-4 Dorysil

Oral LD50 5000 mg/Kg (rat)

91-64-5 Coumarin

Oral LD50 293 mg/Kg (rat)

104-54-1 Cinnamyl alcohol

Oral LD50 2000 mg/Kg (rat)

119-61-9 benzophenone

Oral LD50 2895 mg/Kg (mus)

120-51-4 Benzyl benzoate

Oral LD50 500 mg/Kg (rat)

Dermal LD50 4000 mg/Kg (rat)

- Primary irritant effect:**- Skin corrosion/irritation**

Causes skin irritation.

- 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:****111-76-2 2-butoxyethanol**

LC50/96 h 1474 mg/L (Fish)

EC50/48 h 1550 mg/L (Daphnia)

EC50/96 h 911 mg/L (Algae)

EC50/72h 1840 mg/L (Algae)

- 12.2 Persistence and degradability No further relevant information available.**- Other information:** The product is easily biodegradable.**- 12.3 Bioaccumulative potential** No further relevant information available.**- 12.4 Mobility in soil** No further relevant information available.

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- Additional ecological information:**- General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

- 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 of together with household garbage. Do not allow product to reach sewage system.

Can be deposited with household garbage with prior chemical-physical or biological treatment following consultations with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.

- Uncleaned packagings:**- Recommendation:** Non contaminated packagings can be used for recycling.

SECTION 14: Transport information

- UN-Number**- ADR, ADN, IMDG, IATA**

Void

- 14.2 UN proper shipping name**- ADR, ADN, IMDG, IATA**

Void

- 14.3 Transport hazard class(es)**- ADR, ADN, IMDG, IATA****- Class**

Void

- Packing group**- ADR, IMDG, IATA**

Void

- 14.5 Environmental hazards:**- Marine pollutant:**

No

- 14.6 Special precautions for user

Not applicable.

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

Not applicable.

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.**- REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**- National regulations****- Classification according to VbF:** A III

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- Technical instructions (air):

Class	Share in %
Wasser	71.7
NK	10.0

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.**- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

- Department issuing data specification sheet: Ma-Fra Laboratories**- Contact:** lab@mafra.it**- Abbreviations and acronyms:**

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)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

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

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- * Data compared to the previous version altered.