

**SAFETY DATA SHEET**  
(in accordance with 2001/58/EC)

Trade name:  
Date: 10/10/1996  
Revision Date: 01/07/2004

**Puron K**

Page 1/3

Revision 3

**1. Identification of the substance/preparation and of the company undertaking**

1.1. Trade name: **PURON K**

Product code:

1.2. Company name/address

MPD plus s.r.o.

Nábřeží dr. Beneše 2307

269 01 RAKOVNÍK CZECH REPUBLIC

Company Identification No.(IČO) 47549637

Tel.: 313513961

Fax: 313512834



1.3. Emergency Phone No.: Toxicological Information Center, Na Bojišti 1, 128 08 Prague 2  
Tel.: 224919293, 224915402, 224914575

**2. Composition / information on ingredients of the substance/preparation**

**Chemical characterization:** Preparation consists of acids, surfactants and auxiliary compounds.

Hazardous ingredients:	Less than (%)	CAS Number ES (EINECS)	Symbol	R-Phrase S-Phrase
Phosphoric Acid	45	7664-38-2 231-633-2	C	34 1/2-26-45
Alkylsulphonic Acid	10	85536-14-7 287-494-3	C	22-34 26-36/37/39-45

**3. Hazards identification**

3.1. **Most serious unfavorable health effects of the preparation use:** Irritating to skin and mucous membranes. Eye contact may cause blindness or permanent damage to cornea.

3.2. **Potential serious environmental effects of the preparation use:**

The preparation used in the prescribed way is not dangerous to the environment.

**4. First-aid measures**

4.1. **General information:** When unconscious put the person to the stabilized position on the side with slightly back turned head, do not give anything orally, prevent from undercooling, and seek medical advice. If the health problems occur or if you have doubts, seek medical advice and provide them with the information from this Material Safety Data Sheet.

4.2. **After inhalation:** Remove to fresh air, provide peace, prevent from undercooling. If the person stops breathing or when the breath is irregular, start mouth-to-mouth breath. If the irritation or other symptoms persist, seek medical advice.

4.3. **After skin contact:** Immediately take off all contaminated clothing. Wash the effected skin thoroughly with water and soap. Treat the burned skin in sterile way. If the irritation persists or in the case of the skin burns, seek medical advice.

4.4. **After eye contact:** Rinse with plenty of water for at least 15 minutes and hold the eye lid open. Seek medical advice.

4.5. **After ingestion:** Take the person into peaceful place. Rinse the mouth with water (only if the person is conscious), do not induce vomiting. Immediately seek medical advice and show this Sheet or label.

4.6. **Note to physicians:** One of the symptoms is burn. No special means needed. Necessary to treat according to symptoms.

**5. Fire-fighting Measures**

5.1. **Suitable Extinguishing Media/Agents:** Preparation is not flammable. Fire should be extinguished according to measures taken for extinguishing of fire in the neighborhood.

5.2. **Unsuitable Extinguishing Media/Agents:** No

5.3. **Special Danger:** Toxic gases can be liberated during fire.

5.4. **Protective Equipment for Firefighters:** Protective clothing, breathing apparatus.

- 
- 6. Accidental release measure:**
- 6.1. Person-related safety precautions:** Provide airing and use personal protective work means.
- 6.2. Measures for environment protection:** Avoid spillage of the concentrate into the environment and particularly to water-courses.
- 6.3. Measures for collecting and cleaning:** For small spills: wash away with plenty of water. For large spills: cover by absorbent material (sand, diatomaceous earth, special absorbents), scoop into a relevant packaging and dispose as hazardous waste.
- 7. Handling and storage instructions**
- 7.1. Handling:** Prevent contact with skin and eyes, use personal protective work means and observe working instructions. Provide sufficient airing of the workplace.
- 7.2. Storage:** Store in original packages at the temperature of 5 to 20 °C out of direct the sun light and heat sources, separately from food and feed.
- 8. Exposure controls/personal protection**
- 8.1. Technical measures:** Prevent contact with skin and eyes. Provide sufficient airing.
- 8.2. Ingredients with limit values that require monitoring in the workplace**  
**Limits:** not prescribed
- 8.3. Personal Protective Means**  
**Personal protection and hygienic measures:** Watch health protection when working with corrosive chemicals, particularly prevent contact with eyes and skin. Do not eat, drink, smoke. After work wash the skin with warm water and soap, use suitable regeneration
- Hand protection:** protective gloves  
**Eye protection:** protective goggles or face shield  
**Skin protection:** work wear
- 9. Physical and Chemical Properties**
- 9.1. Form/physical state:** liquid
- 9.2. Color:** yellow to brown
- 9.3. Odor:** specific odor after the used ingredients
- 9.4. Change of the physical state**  
**Melting point (°C):** less than 0°C
- 9.5. Flash point (°C):** unknown
- 9.6. Flammability:** not flammable
- 9.7. Ignition (°C):** unknown
- 9.8. Self ignition:** unknown
- 9.9. Explosion limits:** unknown  
**Low (Vol-%):**  
**Upper: (Vol-%):**
- 9.10. Vapor pressure:** unknown
- 9.11. Density (g/cm<sup>3</sup>):** 1.35
- 9.12. Solubility in water:** soluble
- 9.13. pH (20 °C):** less than 2
- 9.14. Further information**
- 10. Stability and reactivity:**
- 10.1. Conditions in which the product is stable:** In normal conditions for use and storage.
- 10.2. Conditions in which the product is unstable:** Temperature above 25 °C, direct sun light and thermal radiation.
- 10.3. Substances and materials with which the product must not be in contact:** Must not get into contact with strong alkalis and particularly disinfectants based on active chlorine.
- 11. Toxicological information**  
**Estimated acute toxicity**  
Alkylsulphonic acid: LD<sub>50</sub>, orally, rat, 2320 mg.kg<sup>-1</sup>

- 
- Irritant effects:** Preparation causes burns.  
**Effect on persons:** Burns eyes, mucous membranes and skin. Contact with eye can result in the permanent damage to the cornea. Aerosol inhalation results in damage to the upper respiratory passages. After ingestion there is damage to the mucous membrane of esophagus and stomach. Sensitization is unlikely.  
**Animal testing:** Preparation has not been tested on animals and it is assessed by the conventional calculation method.
- 12. Ecological information:** Potable water sources are endangered only after large spillage into the ground or water-courses.  
**Biodegradability:** The organic ingredients used in the product are 80% biodegradable (test OECD).  
**Further information:** alkylsulphonic acid: daphnias,  $LC_{50}$  (48h), 15 mg.l<sup>-1</sup>  
fish,  $LC_{50}$  (96h), 1-5 mg.l<sup>-1</sup>

**13. Disposal information**

- 13.1 Disposal considerations:** Not used remains and preparation collected during the spill are disposed as hazardous waste in compliance with the law on hazardous wastes. Remove the preparation from the contaminated surface mechanically and wash away with plenty of water.
- 13.2 Cleaning or disposal of contaminated packages:** Packages must be maximum emptied. After cleaning they can be reused or recycled in compliance with the material designation. Not-used packages should be disposed in compliance with official local regulations.

**14. Transport information:**

**14.1. Ground transport**

**ADR /RID:**

**Class:** 8  
**Packaging Group:** III  
**Classification Code:** C1  
**Hazard label:** 8  
**UN number:** 1805  
**English Name:** PHOSPHORIC ACID, LIQUID



**15. Regulatory information:**

**15.1. EEC Classification**

**Risk symbol:** C Corrosive  
**R phrase:** 34 Causes burns.



**S phrase:** 2-26-27-28-37/39-45

Keep out of reach of children. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**16. Further information:**

**This MSDS is intended to provide a brief summary of our knowledge and it is not meant to be a guarantee of the properties. Users of our products undertake to comply with all the required regulations.**

**The most important regulations (CZ):** Act No.356/2003 Coll., to regulate chemical substances and preparations  
Act No.285/2002 Coll., to regulate the care for nation's health  
Act No.185/1997 Coll., to regulate wastes, including all the implementing regulations and amendments.