

# SAFETY DATA SHEET

(according to the EU directive No. 1907/2006)

Trade name:

**PUREX K**

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Date of first issue in CZ: 10.10.1996

Date of revision in CZ: 10.3.2010

Revision: 5

1. Substance/Product/Company information	
<i>Substance/Product information:</i>	
Substance / Product trade name:	<b>PUREX K</b>
Recommended purpose of using:	Grill and oven cleaner and degreaser
<i>Company information:</i>	
Company name:	MPD plus spol. s r. o.
Company address:	Nábřeží Dr. Beneše 2307, 269 01 Rakovník
Registration number:	475 496 37
Phone:	+ 420 313 513 961
Responsible person:	Ing. Zdeněk Fišer fiser.z@mpd.cz
<i>Emergency information in CZ:</i>	
Emergency phone:	CZ: +420 224 919 293, +420 224 915 402, +420 224 914 575; EU: 112
Address:	Toxicology information department, Na Bojišti 1, 128 08 Prague 2, Clinic for vocational diseases

2. Hazards identification	
<i>Classification:</i>	Product is irritating to skin and eyes.
<i>Adverse effects on human health:</i>	It irritates and burns skin and mucous membrane. Contact with eyes can lead to blindness or to permanent damage to cornea.
<i>Adverse effects on environment:</i>	Product is no classified as dangerous for environment.

3. Composition/Information on ingredients			
<i>Chemical characteristic of product:</i>	Product is mixture of anionic surfactants, builders and additional substances.		
<i>Chemical name:</i>	<i>Content max. (%):</i>	<i>CAS, EINECS, ES Number:</i>	<i>Hazard classification symbol R- and S-phrases:</i>
1,3-dioxolane	5	646-06-0 211-463-5	F+ R-phrases: 11 S-phrases: 2-16
Sodium hydroxide	2	1310-73-2 215-185-5	C R-phrases: 35 S-phrases: 26-37/39-45
Sodium C10-13 alkylbenzenesulfonate	2	68411-30-3 270-115-0	Xi R-phrases: 36/38 S-phrases: 26-36/37/39
Sodium alkylethersulfate	5	13150-00-0 236-091-0	Xi R-phrases: 36/38 S-phrases: 26-36/37/39

4. First Aid Measures	
<i>General measures:</i>	If the person is unconscious place he/she in stabilized position on the side with slightly back turned head. Do not give anything orally, prevent from under cooling and seek medical advice. If health troubles occur, or if you doubt, seek medical advice and provide the information from this safety data sheet.
<i>Inhalation exposure:</i>	Remove to fresh air, provide with tranquility and prevent from under cooling. If not breath or respiratory arrhythmia occur, start with mouth-to-mouth breathing. If irritation or asthma-like symptoms persist, seek medical advice
<i>Dermal exposure:</i>	Take off immediately all contaminated clothes. Rinse thoroughly affected area with large amount of water with soap. Treat burned skin aseptically. If skin irritation persists, seek

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	medical advice.
<i>Eye exposure:</i>	Rinse thoroughly affected eye with large amount of water for minimal 15 minutes and hold the eye lid open. Seek medical care immediately.
<i>Oral exposure:</i>	Rinse mouth with water (only if person is conscious). Do not induce vomiting. Act immediately in order to prevent further irritation of mouth, throat and stomach mucosa. Seek medical advice and show this label.
<i>Other information:</i>	The first of local symptoms is skin and mucous membranes irritation. Special medicaments are not specified. The treatment is symptomatic.

## 5. Fire fighting measures

<i>Suitable extinguishing agents:</i>	The product is not flammable. The fire fighting procedure depends on the fire character in the neighborhood.
<i>Unsuitable extinguishing agents:</i>	N/A.
<i>Specific hazards:</i>	In case of fire, harmful and toxic vapors can be released
<i>Protective equipment for firemen:</i>	Protective clothing and self-contained breathing apparatus.

## 6. Accidental Release Measures

<i>Procedure for Personal precautions:</i>	Provide air ventilation and personal protective work clothing.
<i>Procedure for environmental precautions:</i>	Avoid large concentrate spillage/escape into environment, especially into sewers or surface water.
<i>Methods for disposal and cleaning:</i>	For large spills: use non-combustible absorbent material (sand, diatomaceous earth, special absorbents) and shovel into container and dispose it as a dangerous waste according to the local legislation. For small spills: wash away with plenty of water.
<i>Other information:</i>	

## 7. Handling and storage

<i>Handling:</i>	Avoid contact with skin and eyes. Use personal protective clothing and tools and observe working rules. Provide sufficient air ventilation of working area.
<i>Storage:</i>	Store the product in original packaging at the temperature of 5 – 25 °C out of direct sunshine and heat equipments and separately from food and feed.

## 8. Exposure controls and Personal protective equipment

<i>Technical precautions:</i>	Avoid contact with skin and eyes. Provide sufficient air ventilation. Avoid aerosol formation during spraying.
<i>Control parameters:</i>	Alkaline hydroxides: MAC 2 mg.m <sup>-3</sup>
<i>Exposure limitation:</i>	Use personal protective tools when you work with concentrate, use face mask with filters protecting from alkali particles. Avoid forming and breathing of aerosol.
<i>Personal protective measures:</i>	Attend to health protection during work with chemical substances; especially avoid contact with eyes and skin. Do not eat, drink and smoke. Wash your hand with warm water after work and care them with regeneration hand cream.
<i>Hands protection:</i>	Protective gloves.
<i>Eye protection:</i>	Protective glass or face shield when you work with concentrate.
<i>Skin protection:</i>	Protective clothing.

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<i>Other information:</i>	
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## 9. Physical/ Chemical properties

<i>Physical state:</i>	Liquid.
<i>Color:</i>	Clear, colorless to slightly yellow
<i>Odor:</i>	Specific after raw materials - citrus.
<i>Melting point (°C):</i>	< 0°C.
<i>pH (20 °C):</i>	> 11
<i>Boiling point (°C):</i>	ca. 80°C
<i>Flash point (°C):</i>	N/A
<i>Ignition point (°C):</i>	N/A.
<i>Flammability:</i>	Not flammable.
<i>Auto ignition:</i>	N/A.
<i>Explosion limits:</i>	N/A.
<i>Oxidizing properties :</i>	none
<i>Vapor tension (at 20 °C):</i>	N/A.
<i>Density (g/cm<sup>3</sup>):</i>	1,0 – 1,1
<i>Solubility (at 20 °C):</i>	Soluble in water at large
<i>Separation coefficient n-octanol/water:</i>	N/A.
<i>Other information:</i>	

## 10. Stability and Reactivity

<i>Conditions of product's stability:</i>	The product is stable under normal handling and storage conditions.
<i>Conditions of product's instability</i>	Temperature higher than 25 °C, direct sun and heat radiation.
<i>Undesirable substances and materials:</i>	Product can not be in contact with strong acids.

## 11. Toxicological information

<i>Toxicological information:</i>	Product is irritating.
<i>Acute toxicity of product:</i>	Higher than 2000 mg.kg <sup>-1</sup> .
<i>Acute toxicity of ingredients:</i>	Podium hydroxide: LD <sub>10</sub> , orally, rabbit, 500 mg.kg <sup>-1</sup> Anionic surfactant: LD <sub>50</sub> , orally, rat, 4000 mg.kg <sup>-1</sup> 1,3-dioxolane: LD <sub>50</sub> , orally, rat, 3000 mg.kg <sup>-1</sup> LD <sub>50</sub> , dermally, rat, rabbit, 9074 mg.kg <sup>-1</sup> LD <sub>50</sub> , by inhalation, rat, 9074 mg.kg <sup>-1</sup>
<i>Product irritation:</i>	Product irritates skin and eyes.
<i>Experiences on human:</i>	Irritates eyes, mucous membrane and skin. Exposition to eyes causes permanent damage to cornea. Inhalation of aerosol causes irritation of respiratory system. Ingestion can cause damage to throat and stomach mucosa. Sensibilisation is not probable.
<i>Tests on animals:</i>	Product was not tested on animals but it is evaluated by conventional calculation method.

## 12. Ecological information

<i>Ecological information:</i>	Drinking water sources are endangered only after the escape of large amount of detergent into ground and water courses.
<i>Biodegradability</i>	Present organic compounds are ready biodegradable (OECD test: > 80 %).

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<i>information:</i>	Biodegradability of surfactants corresponds with requirements in EU Directive 648/2004
<i>Product eco-toxicity:</i>	Aquatic life can be endangered only at very high concentration of product. Anionic surfactant: <i>Dafnia</i> (acute). LC <sub>50</sub> (24h), 21 mg.l <sup>-1</sup>
<i>Mobility:</i>	high
<i>Degradability:</i>	high
<i>Bioaccumulation potential:</i>	Bioaccumulation in environment is not expected.
<i>Other information:</i>	


## 13. Disposal considerations

<i>Procedure of product disposal:</i>	Unused remains of product and spillage product absorbed into absorbent materials are disposed as a dangerous waste according to local legislation. The contaminated surface is, after the spilt product remove, rinsed with plenty of water. Professional products ending up down the drain after use. Observe safe handling precautions and local regulations.
<i>Procedure of packaging disposal:</i>	Packages must be emptied. After cleaning they can be re-used or recycled or disposed according to local regulation.

## 14. Transport information

<i>Other information:</i>	Product is not classified as dangerous for the transport.
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## 15. Regulatory information

<i>Classification and product labeling:</i>	<b>Xi - Irritating</b>	
Indication of product danger – R-phrases and risk statements:	38 – 41 Irritating to skin. Risk of serious damage to eyes.	<b>Irritating</b>
Safety statements – S-phrases:	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. After contact with skin, wash immediately with plenty of water. Take off immediately all contaminated clothing. Wear suitable gloves and eyes/ face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	
<i>Composition information:</i>	Product contains: < 5% sodium hydroxide; < 5% anionic surfactants; d-limonene	

## 16. Other information

<p>The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Safety data sheet is created based on data sheets of raw materials provided from their manufacturers and amended with local legislation requirements. Any special training is not need before product application. Instructions on the label and this MSDS are sufficient for product application.</p> <p>R-phrases in paragraph 2 and 3. R 11 Highly flammable. R 35 Causes severe burns. R 36/38 Irritating to eyes and skin.</p>
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