PPH CERKAMED

Material Safety Data Sheet CITRIC ACID 40 % – Root Canal Rinsing Liquid.

MSDS is prepared in accordance with REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCILof 16 December 2008on classification, labelling and packaging of substances and mixtures, amending and repealingDirectives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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1 . IDENTIFICATION

MANUFACTURER: **PPH CERKAMED Wojciech Pawłowski**
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2. HAZARDS IDENTIFICATION :

Irritant preparation. Irritating to eyes. Biodegradable preparation.

Classification according to GHS



WARNING

Hazardous: H319 Irritating to eyes

Prevention: P351 + P338 IN CASE OF EYE CONTACT: Flush water carefully for few minutes. If applicant and possible, take out contact lenses. Continue flushing.

Storage: P402 Store in a dry place.
P403 Store in a well-ventilated place.

3. COMPONENTS

Name	CAS No.	WE No.	Classification	Concentration [%]
Citric acid	77-92-9	201-069-1	[Xi] R 36	40

The full wording of R-phrases and symbols can be found in point 16 of this MSDS

4. EMERGENCY FIRST AID PROCEDURES

General information
Do not give anything by mouth to an unconscious person.
After inhalation
Provide access to fresh air. Call a doctor.
After eye contact
Immediately flush eyes with plenty of water for at least 10 minutes.
Avoid strong stream of water due to the risk of mechanical damage to the cornea.
If signs of irritation persist, contact your doctor.
After skin contact: Take off contaminated clothing. Rinse skin with plenty of water. In the

case of irritation, contact your doctor.
After ingestion: Induce vomiting.. Give water to drink. Contact your doctor.

5. FIRE FIGHTING MEASURES

Product not - flammable.

Adequate fire-fighting measures: powders and fire-fighting foam, carbon dioxide.

Fire-fighting measures, which must not be used for safety reasons: Not specified

Special risks: Unknown

Hazardous decomposition products:
Dangerous vapors can be released.

Special protective equipment: In case of fire substances harmful to health can be produced. Put on protective gastight clothing and breathing apparatus complete with a full face mask.

6. UNINTENDED RELEASE INTO THE ENVIRONMENT

Individual precautions:
Avoid contact with eyes and skin. Provide for the exchange of air (ventilation).
Proceed in accordance with the principles of safety and health at work with chemicals. Use personal protective equipment as stated in paragraph 8.

Precautions concerning environment protection:
In the event of a failure, do not allow discharges into the environment. Secure the product before it enters the sewers, groundwater, soil.

Cleaning method:
Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method. Rinse the contaminated surface with water.

7. HANDLING AND STORAGE

Dealing with preparation: Proceed in accordance with the principles of good practice and in compliance with health and safety. While using of the device do not eat, drink or smoke, avoid eye and skin contact with the liquid, personal protective equipment (as defined in section 8). Spilled preparation can cause risk of slipping.

Protection against the fire and explosion: Non- flammable preparation

Storage: Store in original packaging, at a room temperature and ventilated area.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

Biological monitoring:
Not applicable

Respiratory protection: Not required - with proper treatment.

Eye protection: Necessary - goggles or face protection such as protective visor.

Skin protection: Necessary - gloves and appropriate protective clothing - lab coat.

Other information: While using the preparation avoid eye and skin exposure, do not consume meals and beverages, do not smoke.

9. PHYSICAL/CHEMICAL PROPERTIES

Physical form, color, odor:	colorless solution
Boiling point:	not determined
Melting point:	not determined
Vapor pressure:	not determined
Flash point:	not determined
Solubility in water:	very good
Density:	1, 1 g / ml
Ignition point:	not determined
pH	1,7

10. STABILITY AND REACTIVITY

Stability:
Product stable under normal conditions of use and storage.
Materials and conditions that must be avoided:
Metals, alkalis, oxidants and reduction components.
Hazardous decomposition products:
At high temperature dangerous vapor can release.

11. TOXICOLOGICAL INFORMATION

Inhalation
Not specified

Ingestion
Substance occurring physiological in human body.
Citric acid LD_{50} (rat) 3000 mg/kg (anhydrous substance)
May cause light soreness and redness of the mouth and throat after swallowing.

Skin
Light irritation to skin may occur.

Eyes
Avoid eye contact. Pain and redness may occur. The eyes may water profusely.

Other information
None of the ingredients of the product is classified as carcinogenic, mutagenic or reprotoxic.

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12. ECOLOGICAL INFORMATION

Ecotoxicology:
High toxicity (LC_{50}/96 h) for fish:

– *Leuciscus idus melanotus* – 440 -760 mg/l

High toxicity (EC_{50}/72 h) for seashells:
– *Daphnia magna* **–** 120 mg/l

Bioaccumulation:
Not specified

Biodegradation:
Biodegradable: 98%/48 h
Chemical demand for oxygen (ChZT): 0,728 g/g
Biochemical demand for oxygen (BZT5): 0,526 g/g

13. DISPOSAL CONSIDERATIONS

Dispose of in compliance with governmental regulation or return to the producer.

14. TRANSPORT INFORMATION

The product is not subject to regulations for hazardous materials.

Transport by road (ADR / RID) – NA
Maritime transport (IMDG) - NA
Air transport (ICAO / IATA) - NA

15. REGULATION

Product **has to be** labeled.

H319 Irritating for eyes.



WARNING

General information:
The product intended for use only by qualified medical personnel, as recommended by the manufacturer.

NOTE: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the material safety data sheet. The user's

attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Explanation of symbols and phrases appearing in section 3:

Xi Irritant
R 36 Irritating to eyes.

Other sources of basic data to compile the data sheet:

- MSDS of the individual ingredients of this product
- Computer Database EINECS, 2005.
- IUCLID Data Bank
- ESIS - European Chemical Substances Information System

You will be responsible for creating the conditions for the safe use of the product and bear responsibility for any consequences resulting from misuse of this product.