

PPH CERKAMED**Material Safety Data Sheet BLUE ETCH – DENTAL ETCHING GEL**

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

UPDATING DATE: 24.09.2014

1. IDENTIFICATION

MANUFACTURER: **PPH CERKAMED Wojciech Pawłowski**

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37-450 Stalowa Wola, POLAND

2. HAZARDS IDENTIFICATION

Corrosive. May cause burns.

Classification according to GHS

**HAZARDOUS**

Hazardous: H314 Causes severe skin burns and eye damage.

Prevention: P280 Use protective gloves/protective clothing/eye protection/face protection.

P301 IN CASE OF SWALLOW: flush mouth. DO NOT vomit.

P305 IN CASE OF EYE CONTACT: Flush water carefully for few minutes.

P338 If applicant and possible, take out contact lenses. Continue flushing.

P301+P312 and P307+P311 In case of accident call POISON CENTER or a doctor immediately.

Storage: P405 Store locked up.

3. INGREDIENTS

Name of the substance	CAS No.	WE No.	Classification	R-phrases	Concentration % (Mass percentage)
1. Phosphoric acid 85 %	7664-38-2	231-633-2	C	34	36
2. Glycerin	56-81-5	200-289-5	Not applicable	Not applicable	<10

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

4. EMERGENCY FIRST AID PROCEDURES

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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. Do not use soap or any neutralizing measures. In case of irritation, contact your doctor.

After ingestion: Do not induce vomiting. Give milk to drink. Do not apply any neutralizing substances. Call a doctor.

5. FIRE FIGHTING MEASURES

Non-flammable substance, appropriate measures for extinguish smoking materials in the environment.

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

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

Do not use massive streams of water.

Special risks: Unknown.

Hazardous decomposition products

They may be formed as oxides of phosphorus $PxOy$.

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:

Use measures such as absorbing sand and carefully collect and place in an appropriate, well-marked container waste. 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).

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Spilled preparation can cause risk of slipping.

Protection against fire and explosion: Preparation of non-flammable properties.

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

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

Biological monitoring: Not applicable

Respiratory protection: Not required - with the proper treatment.

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

Skin protection: Necessary - gloves and appropriate protective clothing .

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:	blue gel
Boiling point:	not determined
Melting point:	not determined
Vapor pressure:	not determined
Flash point:	not determined
Solubility in water:	very good
Density:	1.34 g / ml
pH	1.5
Ignition point:	not determined

10. STABILITY AND REACTIVITY

Stability:

Product stable under normal conditions of use and storage.

Materials and conditions that must be avoided:

Alkalis, metals, metal oxides.

Hazardous decomposition products

The high temperature may cause phosphorus oxides (to appear).

11. TOXICOLOGICAL INFORMATION

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Inhalation

No danger, under normal conditions of use.

Ingestion

High toxicity:

O-phosphoric acid (CAS 7664-38-2) LD50 (rat) 1530 mg / kg

Ingestion may cause a burn mouth, throat, esophagus

Skin

Ortho-phosphoric acid: LD50 (rabbit): 2740 mg / kg

It can cause skin burn: redness, swelling, itching, pain, blistering, ulceration and destruction of tissue located.

Eyes:

It can cause eye burn: opacity of the cornea, chemical burns, pain, tearing, ulcers, impairment of vision.

Other information

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

12.ECOLOGICAL INFORMATION

Ecotoxicology:

Harmful to aquatic organisms:

Ortho-phosphoric acid LD50 100 mg/l/96 h, the harm depends on the pH.

Do not allow to access the drinking water sources, soil and water treatment.

Fish: Gambusia affinis LC50 138 mg/l/96 h

Bioaccumulation:

Not specified

Biodegradation:

Biodegradable

13.DISPOSAL CONSIDERATIONS

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

14.TRANSPORTATION INFORMATION

The product is subject to regulations for hazardous materials.

Number of material: UN 1805

The correct name: the corrosive material (containing phosphoric acid by-36%)

Transport by road (ADR / RID) - kl.8, code C9, gr. packing III, No risk 80

Maritime transport (IMDG) - 8, gr. packing III EMS 8-15

Air transport (ICAO / IATA) - 8, gr. packing III

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15.REGULATION

Product has to be labeled. Contains o-phosphoric acid (36%).

H314 Cause major skin burns and eye damage.



HAZARDOUS

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:

C- Corrosive substance

R 34 – Causes burns

Classification of C, R34 calculation method was made based on the value of phosphoric acid concentration (C >10%).

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.