

MATERIAL SAFETY DATA SHEET of BLUE ETCH – DENTAL ETCHING GEL

MSDS is prepared in accordance with THE REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

MSDS DATE PREPARED: 06.10.2008

1. IDENTIFICATION

MANUFACTURER: **PPH CERKAMED Wojciech Pawlowski**
ADDRESS: ul. Sandomierska 18 B

37-400 Nisko, POLAND

2. HEALTH HAZARDUS: Corrosive. Causes burns.

3. INGREDIENTS

Name of the substance	No CAS	No WE	Classification	R-phrases	Concentration % (Mass percentage)
1. Phosphoric acid 85 %	7664-38-2	231-633-2	C	34	36
2. Glycerine	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

General information

Unconscious person does not give anything by mouth.

After inhalation

Ensure access of 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 measures neutralized. In the case of irritation, contact your doctor.

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

5. FIRE FIGHTING MEASURES

Non-flammable substance, appropriate measures to 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 P_xO_y .

Special protective equipment: In case of fire can be produced substances harmful to health. Put on protective clothing gastight and camera isolating inhalation (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 for the protection of the environment:

In the event of a failure to not allow discharges into the environment. Secure the product before they enter the sewers, groundwater, soil.

Cleaning method:

Use measures such as absorbing sand and carefully collected and placed in an appropriate, well-marked on the container waste. Contaminated surface rinse with water.

7. HANDLING AND STORAGE

Dealing with preparation: Proceed in accordance with the principles of good practice and to comply with health and safety. While the use of not eating, not drinking, not smoking, avoiding contact with the liquid eyes and skin, personal protective equipment (as defined in section 8).

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

Storage: Store in original packaging, at room temperature.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

Biological monitoring:

Not applicable

Respiratory protection:

Not required - with the proper treatment.

Eye protection:

Necessary - when working with patients to wear goggles or face protection such as protective headgear dental care.

Skin protection:

Necessary - when working with patients to wear gloves and appropriate protective clothing - apron.

Other information:

Avoid the use of eye and skin exposure, do not eat meals and beverages, no smoking.

9. PHYSICAL/CHEMICAL PROPERTIES

Physical form, color, odour:	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

10. STABILITY AND REACTIVITY

Stability:

Product stable under normal conditions of use and storage.

Materials and conditions that must be avoided:

Alkalies, metals, metal oxides.

Hazardous decomposition products

The high temperature may arise oxides of phosphorus.

11. TOXICOLOGICAL INFORMATION

Inhalation

Under normal conditions of use no danger.

Ingestion

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: localized redness, swelling, itching, pain, blistering, ulceration and destruction of tissue.

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 not 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.WASTE MANAGMENT

Unused product with the packaging has to be handed over to the authorized consumer of chemical waste 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

15.REGULATION

The product has to be labeled. It contains phosphoric acid (36%)



Corrosive. C
R 34 Causes burns

S1 / 2 26-45 - Store the closure and to protect the children. Contact with eyes, rinse

immediately with plenty of water and seek medical advice. In case of accident or if you feel ill, seek medical advice immediately - if it can show the label.

General information:

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

16.OTHER INFORMATION

Explanation of symbols and phrases appearing in section 3:

C- Corrosive substance

R 34 – Causes burns

Classification of C, R34 made calculation method 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

All information are based on the current state of our knowledge. The information contained in the MSDS is intended to characterize the product, from the safety requirements.

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