

PML After Remover
February 12, 2025

PML Neutralizer Remover

SAFETY DATA SHEET

(in accordance with Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP))

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product Identifier

Product name: PML Neutralizer Remover

1.2 Relevant identified uses of the substance or mixture and uses advised against

Solution for removing permanent makeup and tattoos.

1.3 Details of the supplier of the safety data sheet

Company address:

ul. Kilińskiego 18/20, 42-200 Częstochowa, Poland

Phone: +48 882-169-228

Email: biuro@pml.com.pl

Responsible for the preparation of the SDS:

Janusz Wolnicki

Email: biuro@pml.com.pl

1.4 Emergency telephone number

Toxicological information in Poland: **+48 42 631 47 24** (available from 07:00 – 15:00) or **112** (24/7 emergency number).

SECTION 2. HAZARD IDENTIFICATION

PML Neutralizer Remover is **not classified as a hazardous substance** under applicable law.

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

- **Health hazards:** Not classified.

Classification according to Council Directive 67/548/EEC:

- **Health hazards:** Not classified.

Health Risks:

- PML Neutralizer Remover has **mild oxidizing properties**.
- May be harmful if swallowed.
- Causes **eye irritation**.

Environmental Hazards:

- PML Neutralizer Remover has no harmful effects on the natural environment.

Physicochemical Hazards:

- **Non-flammable** substance, does not pose a fire hazard.

2.2 Label Elements

- **Hazard pictograms:** None
- **Warning signal word:** None

Hazard Statements:

- **Harmful. Causes eye irritation.**

Precautionary Statements:

- Read special precautions before use.
- Keep out of reach of children.
- If medical advice is needed, have the container or label at hand.
- Do not use before reading and understanding all safety measures.
- Store in a sealed container.

2.3 Other hazards

No information on meeting **PBT** or **vPvB** criteria under Annex XIII.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 (CLP)
Distilled Water	EC: 231-791-2, CAS: 7732-18-5	-	-	-
Potassium Phosphate	EC: 231-913-4, CAS: 7778-77-0	-	-	-
Glycerin	EC: 200-289-5, CAS: 56-81-5	-	-	-
Potassium Hydroxide	EC: 215-181-3, CAS: 1310-58-3	-	-	-
Xanthan Gum	EC: 234-394-2, CAS: 11138-66-2	-	-	-
DMDM Hydantoin	EC: 229-222-8, CAS: 6440-58-0	-	-	-
Methylparaben	EC: 202-785-7, CAS: 99-76-3	-	-	-

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:

- No specific measures required. If discomfort occurs, seek medical advice.

Skin Contact:

- Remove contaminated clothing.
- Wash affected skin with plenty of water and soap.
- If irritation occurs, consult a dermatologist.

Eye Contact:

- Immediately rinse eyes with a large amount of water while keeping eyelids open.
- Ensure thorough flushing of the entire eye surface.
- If needed, consult an ophthalmologist.

Ingestion:

- Rinse mouth and drink plenty of water.

- Do not induce vomiting.
- If large amounts are swallowed, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- **Inhalation:** No reported adverse effects.
- **Skin Contact:** No reported adverse effects.
- **Eye Contact:** Causes irritation and redness.
- **Ingestion:** May cause irritation or burning of the mouth and throat.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.
 - If large amounts are swallowed or inhaled, contact a poison control specialist immediately.
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SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media should be selected based on surrounding materials.

5.2 Special hazards arising from the substance or mixture

- **Non-flammable.**
- Mild oxidizing properties—supports combustion under certain conditions.
- Heating may cause an increase in pressure leading to container rupture.

5.3 Advice for firefighters

- Do not stay in the danger zone without appropriate protective clothing and self-contained breathing apparatus.
 - Cool containers with sprayed water.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

- Wear protective clothing, safety goggles, and gloves when handling spills.

6.2 Environmental precautions

- Prevent the product from entering surface and groundwater.

6.3 Methods and material for containment and cleaning up

- Absorb spilled liquid with appropriate absorbent materials (e.g., sawdust, sand).
- Dispose of collected material according to regulations.

6.4 Reference to other sections

- Disposal methods: see **Section 13**.
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SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- Do not ingest.
- Avoid contact with eyes.
- Wear appropriate protective gear.
- Follow safety and hygiene principles:
 - Do not eat, drink, or smoke in the workplace.
 - Wash hands after use.
 - Remove contaminated clothing and protective equipment before entering areas for meals.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

- Store in a closed container at temperatures below **25°C**.
- Protect from light.
- Keep out of reach and sight of children.

7.3 Specific End Uses

- No data available.
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Recommendations for monitoring procedures for hazardous substances in the air—measurement methodology:

- **Regulation of the Minister of Health (April 20, 2005)** on testing and measuring harmful factors in the workplace.
- **PN-89/Z-01001/06**: Air purity protection—terminology.
- **PN-EN-689:2002**: Air quality assessment guidelines.

Important:

- If exposure concentrations are known, select appropriate **personal protective equipment** based on concentration, exposure time, and tasks performed.
- In case of emergency, **use the highest level of personal protection available**.
- The employer is required to ensure that **protective equipment and work clothing are maintained properly**.

8.2 Exposure Controls**Respiratory Protection:**

- Use protective masks if exposure limits are exceeded.

Eye Protection:

- **Protective goggles/glasses.**

Hand Protection:

- **Nitrile gloves.**

Skin Protection:

- Protective clothing made of dense fabric.
- Protective aprons.

General Recommendations:

- Follow **industrial hygiene** regulations.
 - **Do not eat, drink, or take medication while working.**
 - Avoid **direct contact** between product and skin or eyes.
 - **Change contaminated clothing immediately.**
 - **Wash hands thoroughly after handling.**
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on Basic Physical and Chemical Properties**

Appearance: Colorless liquid

Odor: Characteristic

Odor threshold: Not applicable

pH: Acidic

Melting/Freezing Point: -26°C

Initial Boiling Point & Range: ~106°C

Flash Point: Not applicable

Evaporation Rate: 299 Pa at 25°C

Flammability (solid, gas): Non-flammable

Upper Explosive Limit: Not applicable
Lower Explosive Limit: Not applicable
Vapor Pressure (relative to air): 1.17
Relative Density at 20°C: 1.11 g/cm³
Solubility: Easily soluble in water, alcohols, ethyl ether
Partition Coefficient n-Octanol/Water: Log Ko/w = -1.57
Auto-Ignition Temperature: Not applicable
Decomposition Temperature: No data available
Viscosity at 20°C: 1.248 mPa·s
Explosive Properties: None
Oxidizing Properties: Weak oxidizer

9.2 Other Information

Molecular Weight: 39.02 g/mol

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

PML Neutralizer Remover has oxidizing and corrosive properties. It decomposes into water and oxygen, releasing heat during decomposition.

10.2 Chemical Stability

The product is stable under normal storage conditions.

10.3 Possibility of Hazardous Reactions

Decomposition in closed containers may occur explosively.

10.4 Conditions to Avoid

Avoid high temperatures, exposure to light, contact with alkaline substances, dirt, and rust.

10.5 Incompatible Materials

Decomposition catalysts for PML Neutralizer Remover include organic materials, reducing agents, metal oxides, metal salts, metal ions (e.g., Mn, Fe, Cu, Ni, Cr, Zn), alkalis, contaminants, rust, and dirt.

10.6 Hazardous Decomposition Products

At high temperatures, oxygen and heat are released.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity:

LD50 (oral, rat) = 1200 mg/kg (for 30% hydrogen peroxide)

LD50 (dermal, rabbit) >2000 mg/kg (for 30% hydrogen peroxide)

LC50 (inhalation, rat) >170 mg/m³ (30 min) (for 30% hydrogen peroxide)

Irritation: May cause eye irritation.

Corrosiveness: Not classified as corrosive.

Sensitization: Does not cause sensitization.

Mutagenicity: Not classified as mutagenic.

Carcinogenicity: Not classified as carcinogenic.

Reproductive Toxicity: Not classified as toxic to reproduction.

Potential Routes of Exposure:

- **Skin contact:** No adverse effects when applied to intact skin. May cause irritation or stinging when in contact with damaged or open skin.
- **Eye contact:** Causes irritation and redness.
- **Inhalation:** Under normal conditions, no harmful effects on the respiratory system due to the product's low volatility.
- **Ingestion:** May cause irritation and burns in the mouth and throat. Large amounts may lead to abdominal pain, vomiting, and diarrhea.

Adverse Effects:

- If it enters blood vessels, it may cause **methemoglobinemia** or **gas embolism**.
- If introduced into body cavities without proper drainage, it may cause **localized emphysema**.
- Rinsing periodontal pockets may lead to **subgingival emphysema**.

PML Neutralizer Remover is an **unstable compound** that decomposes in the presence of tissue **catalases**, releasing atomic oxygen. This reaction occurs rapidly in the presence of biological secretions and necrotic tissue. The released oxygen has **antibacterial**, **bleaching**, and **mechanical cleansing properties**, helping to soften scabs and encourage granulation.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No detailed environmental studies have been conducted. The substance is **not classified as hazardous to the environment**, but **pH reduction** may negatively affect aquatic organisms. Do not allow the product to enter **groundwater, sewage systems, or water bodies**.

Ecotoxicity Data:

- Acute toxicity to **Daphnia magna**: EC50 = 2320 µg/L/48h
- Acute toxicity to **Oncorhynchus mykiss (rainbow trout)**: LC50 = 22 ppm/96h
- Acute toxicity to freshwater fish: LC50 = 16.4 mg/L/24h
- Acute toxicity to invertebrates: EC50 = 2.4 mg/L/48h
- Toxic threshold for **rainbow trout** (230 min exposure): 3000 mg/L
- Toxic threshold for **zooplankton and microorganisms**:
 - **Gammarus pulex**: 5500 mg/L
 - **Paramecium caudatum**: 7000 mg/L
 - **Eperous assimilis**: 3000 mg/L
 - **Vorticella campanula**: 2500 mg/L

Chronic Toxicity:

- No Observed Effect Concentration (NOEC) for **invertebrates**: 0.63 mg/L (for 30% hydrogen peroxide)
- Growth inhibition in **algae**: NOEC = 0.63 mg/L (for 30% hydrogen peroxide)
- Toxicity for **microorganisms**: EC50 = 466 mg/L (for 30% hydrogen peroxide)

12.2 Persistence and Degradability

PML Neutralizer Remover undergoes **complete biodegradation** in the environment. It is also subject to **photodegradation** in the air. The half-life of hydrogen peroxide in the air is approximately **24 hours**.

12.3 Bioaccumulative Potential

The product **does not bioaccumulate**.

12.4 Mobility in Soil

Due to its **high solubility in water**, the product is expected to be **highly mobile in soil**.

12.5 Results of PBT and vPvB Assessment

The substance **does not meet the criteria** for PBT (Persistent, Bioaccumulative, and Toxic) or vPvB (very Persistent, very Bioaccumulative) classification.

12.6 Other Adverse Effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Spilled PML Neutralizer Remover should be diluted with a **large amount of water** until **visible decomposition stops** (bubbling ceases).

Use the product according to **instructions** to minimize waste.
Dispose of **empty, single-use containers** through an **authorized waste handler**.
Disposal should comply with **local waste regulations**.

Relevant Regulations:

- Waste Act of **April 27, 2001**
 - Packaging and Waste Act of **May 11, 2001**
 - Regulation of the Minister of the Environment on the Waste Catalogue, **September 27, 2001**
 - EU Directives **75/442/EEC** and **91/689/EEC**
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SECTION 14. TRANSPORT INFORMATION

14.1 UN Number

- Not applicable

14.2 Proper Shipping Name

- Not applicable

14.3 Transport Hazard Class(es)

- No data available

14.4 Packing Group

- Not applicable

14.5 Environmental Hazards

The substance **does not pose a threat to the environment** according to UN model regulations.

14.6 Special Precautions for Users

- No data available

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

- No data available
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SECTION 15. REGULATORY INFORMATION

15.1 Safety, Health, and Environmental Regulations Specific for the Substance or Mixture

The product is subject to the following regulations:

- **Act of January 11, 2001**, on chemical substances and mixtures
- **Regulation of the Minister of Health, September 2, 2003**, on classification criteria and labeling of hazardous substances and mixtures
- **Regulation of the Minister of Health, September 28, 2005**, on the list of hazardous substances with their classification and labeling
- **Regulation of the Minister of Health, November 13, 2007**, on safety data sheets for hazardous substances and mixtures
- **Act of April 27, 2002**, on waste disposal
- **Act of May 11, 2001**, on business responsibilities for waste management
- **Regulation of the Minister of the Environment, September 27, 2001**, on the waste catalog
- **Regulation of the Minister of Economy, July 5, 2004**, on restrictions, prohibitions, or conditions for production, trade, or use of hazardous substances and mixtures
- **EU Regulation (EC) No. 273/2004**, on drug precursors
- **EU Regulation (EC) No. 1272/2008**, on classification, labeling, and packaging of substances and mixtures
- **EU Regulation (EC) No. 1907/2006**, concerning REACH
- **EU Regulation (EC) No. 453/2010**, amending REACH

15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

Changes from the previous version:

- General update

List of R-phrases:

- Not classified

Full text of H and EUH statements:

- Not classified

Precautionary Statements:

- S25: Avoid contact with eyes
 - S2: Keep out of reach of children
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This Safety Data Sheet (SDS) is provided directly to the user of PML Remover without any assurances or guarantees regarding the completeness or level of detail of the information or recommendations contained herein.

This document does not constitute a basis for any liability of any kind on the part of the supplier of PML Remover. The manufacturer shall not be held responsible for any fatality, illness, or health damage of any nature resulting from the use or misuse of the Safety Data Sheet or the material to which it pertains.

The employer is responsible for informing all employees who come into contact with the substance about the hazards and personal protective measures outlined in the Safety Data Sheet.

This Safety Data Sheet has been developed based on the SDS provided by the manufacturer and/or online databases, as well as applicable regulations concerning hazardous substances and chemical preparations.

The information contained in this document reflects the current state of our knowledge and experience regarding the safe use of the product.

Individuals involved in handling the substance should be trained in procedures, safety, and hygiene practices.