



Safety Data Sheet

according to Regulation (EU) No. 1907/2006

Pelox Passivation Product RP

Print date: 25.03.2010

Product code: RP

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Pelox Passivation Product RP

Use of the substance/preparation

Passivating of stainless steel surfaces

Company/undertaking identification

Company name: Pelox BioChemie- und Umwelttechnik GmbH & Co. KG
Street: Langer Acker 22
Place: D-30900 Wedemark
Telephone: 05130- 58 89-0
e-mail: info@pelox.de
Contact person: Gert Makuch
Internet: www.pelox.de
Responsible Department: Abteilung Labor, Dipl.-Chem. Makuch (Gefahrgutbeauftragter)
Emergency telephone: 05130- 58 89-0
0171- 3 17 64 09
Telefax: 05130- 58 89-58

2. Hazards identification

Classification

Indications of danger : Corrosive
R-phrases:
Causes burns.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
231-714-2	7697-37-2	nitric acid ... %	15 - 20 %	O, C R8-35

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

If victim is at risk of losing consciousness, position and transport on their side. Consult physician immediately.

After contact with skin

After contact with skin, wash immediately with: Water and soap. Subsequently wash again with: Water.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Let water be swallowed in little sips (dilution effect). Provide fresh air. Immediately get medical attention.

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5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide (CO₂). Extinguishing powder. Water fog. Against bigger fire fight with water fog or alcohol-resistant foam.

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Cool closed containers with water near by the source of fire. Risk of burst

6. Accidental release measures

Personal precautions

Leave danger zone immediately. Avoid inhalation of gases and fumes, preferably use respiratory protective equipment (filter type A2B2E2K2-P3)

Environmental precautions

Do not empty into drains or the aquatic environment. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

Methods for cleaning up/taking up

Use neutralisation product (e. g. soda, calcium hydroxide, thinned alkali solution) after diluting with plenty of water. Provide adequate ventilation.

Collect mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Unsuitable material for absorbing: Sawdust. Use a water spray jet to knock down vapours/gases/mists. Dispose contaminated material as waste according to chapter 13.

7. Handling and storage

Handling

Advice on safe handling

Keep container tightly closed. Adequate airing/ suction of the working place must be ensured. Wear personal protection equipment.

Advice on protection against fire and explosion

No special measures are necessary.

Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against: UV-radiation/sunlight. Provide for retaining containers, eg. floor pan without outflow. Pay attention to material and volume of the container.

Advice on storage compatibility

No special measures are necessary.

Further information on storage conditions

none / none

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
7697-37-2	Nitric acid	-	-		TWA (8 h)	WEL
		1	2.6		STEL (15 min)	WEL

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Additional advice on limit values

Refer to chapter 7. Additional information about structure of technical plants: Material has to be resistant against hydrofluoric acid.

Exposure controls

Protective and hygiene measures

Operable eye bath right next to working place. Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of work.

Respiratory protection

Short-time or marginally load: Suitable respiratory protective equipment: Filter respirator (DIN EN 147). Intensiv or longer load: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133)., of suitable plastic

Hand protection

Tested protective gloves are to be worn: Suitable material: PE (polyethylene). PVC (Polyvinyl chloride).

Eye protection

Tightly sealed safety glasses. Eye-shade.

Skin protection

chemical resistant suit. Chemical resistant safety shoes.

9. Physical and chemical properties

General information

Physical state: liquid
 Colour: colourless transparent
 Odour: slightly pungent

Important health, safety and environmental information

	Test method
pH-Value:	< 1
Changes in the physical state	
Boiling point:	83 °C
Flash point:	not applicable
Flammability	
Solid:	not applicable
Gas:	not applicable
Explosive properties	
not applicable	
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Oxidizing properties	
none / none	
Density (at 20 °C):	1,11 g/cm ³
Water solubility: (at 20 °C)	soluble

10. Stability and reactivity

Conditions to avoid

Temperature of decomposition: boiling point

Materials to avoid

Dangerous reactions: Exotherme neutralisation reaction with concentrated lye solutions . Strong

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corrosion with most metallic alloys, thereby release of ignitable and in mixture with air explosible hydrogen gas and NOx gases. Reaction with ignitable organic materials (mostly releasing of NOx gases), thereby raised fire risk and possible danger of explosion.

Hazardous decomposition products

nitrous gases

11. Toxicological information

Acute toxicity

Irritant effect on the skin: Irritation and etching on skin and mucuous membrane

Irritant effect on the eye: Irritation and etching, risk of going blind

Sensitising effects

no danger of sensitization.

Additional information on tests

After ingestion: Irritation and etching in mouth and throat and risk of gullet and stomach perforation.

Inhalation can lead to lung oedema. Up to 24 hours latency free of complaints. Poisoning is life-menacing.

12. Ecological information

Ecotoxicity

Water Hazard Class: 1 (self classification)

Must not enter sewage or feeder ditch undiluted or unneutralized. The toxic effect for fish and bacteria begins below pH 6.0 and rises with smaller pH factor.

13. Disposal considerations

Advice on disposal

Dispose used acid solution by neutralisation with lime hydrate solution in a suitable container. Filter accrued neutral mud and dispose as hazardous waste .

Waste disposal number of waste from residues/unused products

190205 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE; wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation); sludges from physico/chemical treatment containing dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

190205 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE; wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation); sludges from physico/chemical treatment containing dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

190205 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE; wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation); sludges from physico/chemical treatment containing dangerous substances
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14. Transport information

Land transport (ADR/RID)

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UN number: UN2031
ADR/RID class: 8
Classification code: C1
Warning plate
Hazard-no.: 80
Hazard label: 8



ADR/RID packing group: II
Limited quantity: LQ22

Description of the goods

NITRIC ACID other than red fuming, with not more than 50% nitric acid

Other applicable information (land transport)

Special provisions: 274

E2

: 2

E

Inland waterways transport

UN number: UN2031
ADNR class: 8
Classification code: CO1
Hazard label: 8



Packing group: II
Limited quantity: LQ22

Description of the goods

NITRIC ACID other than red fuming, with not more than 50% nitric acid

Other applicable information (inland waterways transport)

Special provisions: 274 802

Marine transport

UN number: UN2031
IMDG code: 8
Hazard label: 8



IMDG packing group: II
EmS: F-A, S-B
Limited quantity: 1 L

Description of the goods

NITRIC ACID other than red fuming, with not more than 50% nitric acid

Other applicable information (marine transport)

Special provisions: 274, 944

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Special provisions: -

Air transport

UN/ID number: UN2031
 ICAO/IATA-DGR: 8
 Hazard label: 8



ICAO packing group: II
 Limited quantity Passenger: -

IATA-packing instructions - Passenger: Forbidden
 IATA-max. quantity - Passenger: Forbidden
 IATA-packing instructions - Cargo: 813
 IATA-max. quantity - Cargo: 30 L

Description of the goods

NITRIC ACID other than red fuming, with not more than 50% nitric acid

Other applicable information (air transport)

E2
 : Y808
 30 L
 E0
 :-

15. Regulatory information

Labelling

Danger symbols: C - Corrosive



C - Corrosive

Hazardous components which must be listed on the label

nitric acid ... %

R phrases

34 Causes burns.

S phrases

23 Do not breathe gas/fumes/vapour/spray .
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 27 Take off immediately all contaminated clothing.
 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 01/02 Keep locked up and out of the reach of children.
 07/09 Keep container tightly closed and in a well-ventilated place.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating



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16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 08 Contact with combustible material may cause fire.
- 34 Causes burns.
- 35 Causes severe burns.

Further Information

We guarantee the compliance of the specified characteristics. These specifications do not represent the assurance of characteristics for certain types of applications. We formally express that the recipient is obliged to inspect the goods before application.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)