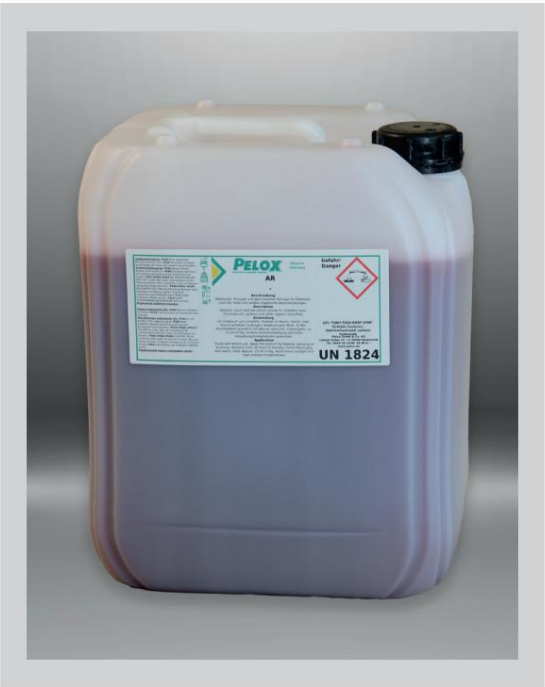
Application/product description

Alkaline cleaning and degreasing agent
Combination product based on sodium hydroxide, surfactants and complexing chemistry
Removes organic contaminants such as oils, grease, deposits and similar contaminants

Individual characteristic

Suitable for metals (not aluminium), ceramic products and plastic
Depending on the application/degree of contamination, individually adjustable by water dilution up to 1:10
Increased efficiency in the temperature range 30-50 °C using the immersion process
Suitable as a cleaner/degreaser before the pickling process



Reaction time approx.
5 min. to 60 min. depending
on material, temperature and welding process as well as type and intensity of surface contamination **Result** degreased and cleaned surface

Yield approx. 15-20
m²/kg

Materials to be treated

Metals (except aluminium), ceramic products and plastics

Recommended accessories

Brush and spray technique
Cleaning effect can be supported by mechanically abrasive aids
Personal protective equipment

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Carefully homogenize cleaning products before use
- Application by brushing, spraying or dipping
- Even longer contact times do not change the stainless steel surface structure
- After cleaning, rinse the surface with clean water using a high-pressure cleaner until pH neutrality is achieved

- Storage temperature: 5 – 25 °C
- Observe safety data sheet and wear personal protective equipment
- Ensure proper wastewater treatment and disposal of residual materials
- All information is non-binding - subject to change

PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	rot
Odour:	odorless
pH value:	11,5-12,5
Density at 20 °C:	1,00 - 1,15 g/cm³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05
Signal word:	Danger
Hazardous components:	Sodium hydroxide

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H314

May be corrosive to metals. Causes severe skin burns and eye damage.

Safety instructions:

P260; P280; P303+P361+P353; P305+P351+P338; P310

Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call a POISON CENTER/doctor.

OTHER HAZARDS

Risk of slipping due to leaking/spilled product.
PBT assessment: According to information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be PBT.
vPvB assessment: According to the information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be vPvB.

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CLEANING AND DEGREASING

Application/product description

Alkaline cleaning and degreasing agent

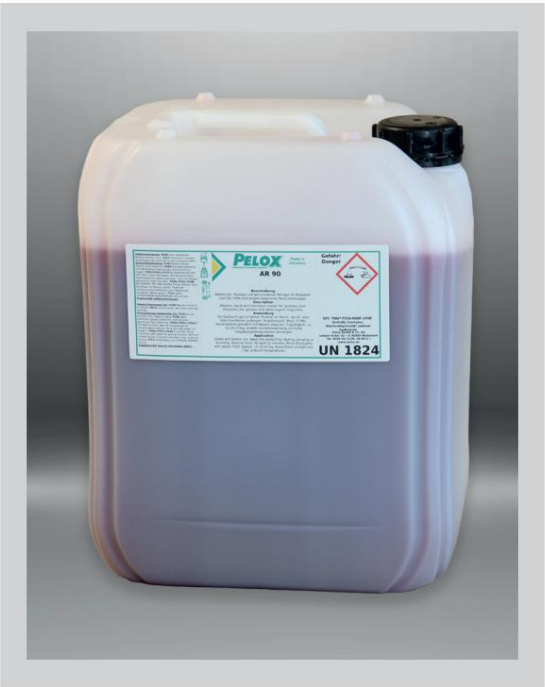
Combination product based on sodium hydroxide, surfactants and complexing chemistry

Removes intensive, stubborn dirt and dissolves burnt-in and resinified oils/fats

Individual feature Suitable for steels

(not for aluminium) and many other materials such as plastics, ceramics (tiles), floors, etc. (preliminary tests recommended)

Depending on the application/degree of contamination, individually adjustable by water dilution up to 1:10 Increased efficiency in the temperature range 30-50 °C in the immersion process Suitable as a cleaner/degreaser before the pickling process



Reaction time approx.
5 min. to 60 min. depending

on material, temperature and welding process as well as type and intensity of surface contamination **Result** degreased and cleaned

surface

Yield approx. 15-20
m²/kg

Materials to be treated Steels and many

other materials such as plastics, ceramics (tiles), floors, etc.

Recommended accessories

Brush and spray technique

Cleaning effect can be supported by mechanically abrasive aids

Personal protective equipment

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Carefully homogenize cleaning products before use
- Application by brushing, spraying or dipping
- Even longer contact times do not change the stainless steel surface structure
- After cleaning, rinse the surface with clean water using a high-pressure cleaner until pH neutrality is achieved

- Storage temperature: 5 – 25 °C
- Observe safety data sheet and wear personal protective equipment
- Ensure proper wastewater treatment and disposal of residual materials
- All information is non-binding - subject to change

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PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	rot
Odour:	odorless
pH value:	13
Density at 20 °C:	~ 1,15 g/cm³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05
Signal word:	Danger
Hazardous components:	Sodium hydroxide Quaternary ammonium compounds, Benzyl-C12-16-alkyldimethyl-, Chloride

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H314

May be corrosive to metals. Causes severe skin burns and eye damage.

Safety instructions:

P260; P280; P303+P361+P353; P305+P351+P338; P310

Do not breathe mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Remove immediately all contaminated clothing. Flush skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call a POISON CENTER/doctor.

No additional information is available.

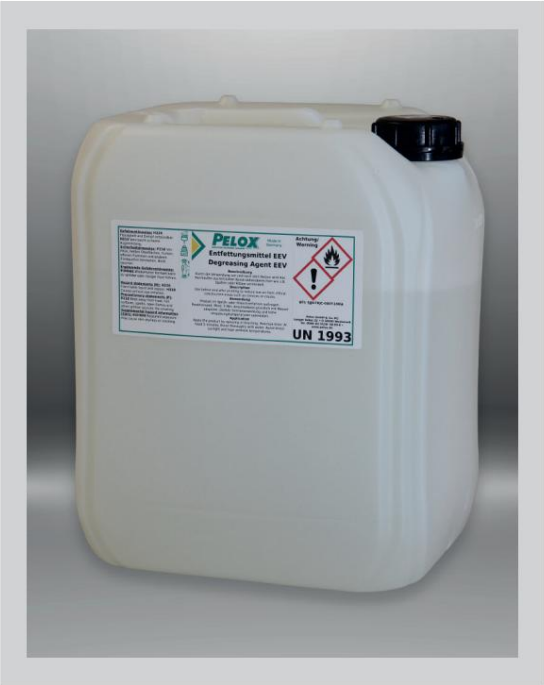
Application/product description

Penetrating degreasing agent
Applying the product to critical construction areas prior to the pickling process reduces the penetration of pickling media into these areas

Infiltration and displacement of the media remaining in the cracks and crevices by a second
Application of the product after the pickling/rinsing process
Subsequent rinsing required
Application by brush or spray

Individual characteristic

Combination of solvents and surfactants with excellent creeping properties, wettability and
Emulsifying ability
Complete solubility in water
Resistance to hardeners and chemicals



Response time
approx. 5-10 minutes

Result
reduces acid residues in critical construction areas

Materials to be treated: all common chrome-nickel steels, light metals, higher alloy materials

Recommended accessories

Paint brush

Spray technology
High pressure cleaner

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- After the rinsing/pickling process, rinse the surface with clean water using a high-pressure cleaner (at least 150 bar) until pH neutrality is achieved Recommended storage temperature: 5 – 25 °C Observe the safety
- data sheet and wear personal protective equipment
- Observe proper waste water treatment and disposal of residual materials All information is non-
- binding - subject to change

PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	colorless
Odour:	characteristic
pH value:	7,8
Density at 20 °C:	0,95 g/cm³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS02GHS07
Signal word:	Danger
Hazardous components:	no

DANGER AND SAFETY INFORMATION

Hazard warnings:

H226; H319

Flammable liquid and vapor. Causes serious eye irritation.

Safety instructions:

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Additional hazard characteristics:

EUH066

Repeated contact may cause skin dryness or cracking.

OTHER HAZARDS

Risk of slipping due to leaking/spilled product.
PBT assessment: According to information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be PBT.
vPvB assessment: According to the information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be vPvB.

EN CONCENTRATE

CLEANING AND DEGREASING

Application/product description

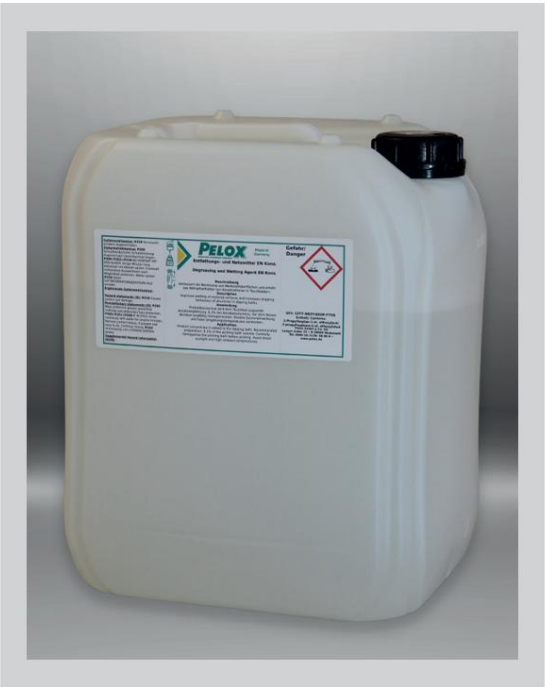
Degreasing and wetting agents for wetting material surfaces, emulsifying oily components and improving the drip-off capacity of structures in immersion baths

Individual characteristic

Good solubility in water

Resistant to hardeners and chemicals

Has excellent wetting and washing properties



processing

Add product to the pickling bath

Result

increases the dripping behavior when removing the Constructions from the pickling bath

Yield 0.05 - 0.1%
of the pool volume

Recommended accessories

Personal protective equipment

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Recommended storage temperature: 5 – 25 °C
- Observe safety data sheet and wear personal protective equipment
- Ensure proper wastewater treatment and disposal of residual materials
- All information is non-binding - subject to change

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PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	yellowish
Odour:	characteristic
pH value:	9
Density at 20 °C:	1 g/cm³

LABELLING ACCORDING TO REGULATION (EC) NO. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:	GHS05
Signal word:	Danger
Hazardous components:	2-Propylheptan-1-ol, ethoxyliert

DANGER AND SAFETY INFORMATION

Hazard warnings:
H318
Causes serious eye damage.

Safety instructions:
P280; P305+P351+P338; P310
Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible.
Continue rinsing. Immediately call a POISON CENTER/doctor.

OTHER HAZARDS

Risk of slipping due to leaking/spilled product.
PBT assessment: According to information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be PBT.
vPvB assessment: According to the information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be vPvB.