CONIFER

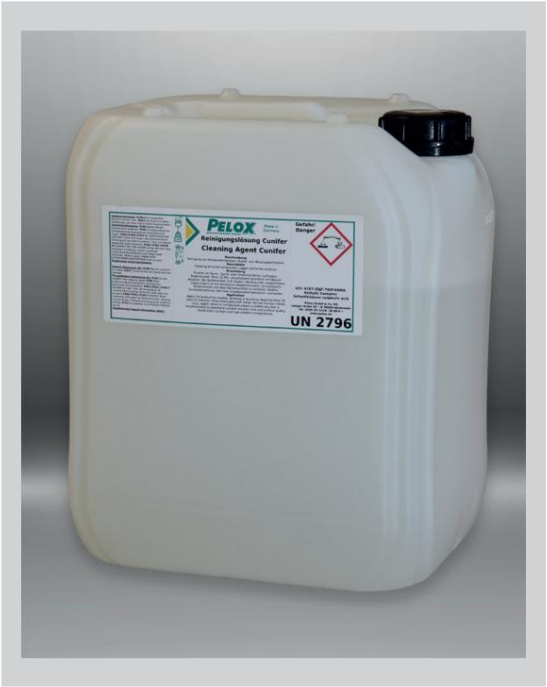
SURFACE CLEANER

Application/product description

Special cleaner for copper, nickel and iron surfaces
Removes organic contaminants, dirt deposits and light oil and grease deposits

Individual characteristic

Particularly suitable for special alloys



Approximate reaction time 30-120 minutes

Depending on the material and the type and intensity of the Surface contamination (pre-test recommended)

Result:
metallically bright surface

Yield approx. 8 - 10 m²/kg

Materials to be treated

Nickel compounds, copper and brass surfaces

Recommended accessories Spray technology Brush

Personal protective equipment The cleaning effect can be supported by mechanically abrasive aids.

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Carefully homogenize cleaning products before use Apply by brushing, spraying or dipping **Even longer contact times do not change the surface structure, provided the material temperature does not exceed approx. 25 °C** After cleaning, rinse the surface with clean water using a high-pressure cleaner until pH neutrality is achieved Avoid direct sunlight and high ambient temperatures (storage and processing temperature: 5 – 25 °C)

- Observe the safety data sheet and wear personal protective equipment. Observe proper wastewater treatment and disposal of residual materials. All information is non-binding - subject to change.

PELOX BioChemie- und Umwelttechnik GmbH & Co. KG | Langer Acker 22 | D-30900 Wedemark Tel.: +49 5130 5889-0 | info@pelox.de

PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	fluid
Form:	fluid
Color:	colorless
Odor:	biting
PH value:	<1
Density at 20 °C:	1,13 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:	sulfuric acid

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 or doctor/physician.

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.

FR-D

SURFACE CLEANER

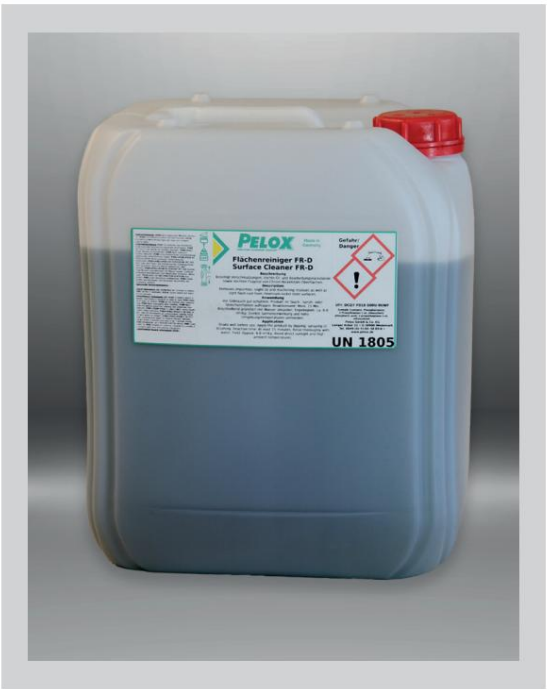
Application/product description

Cleaner for surfaces made of chrome-nickel steel
Removes dirt, light residues of oils, greases or drilling emulsions,
Processing residues and light rust

Individual feature Particularly

suitable as a cleaner before the pickling process, partly also suitable for non-ferrous metals, inorganic and organic materials

Acid concentration



Guideline reaction time at least 15 min.

Depends on material and type and intensity of surface contamination (preliminary test recommended)

Result

Even cleaning of the surface
No staining, visible
lightening of the material

Yield approx. 6 - 8
m²/kg

Materials to be treated

All common chrome-nickel steels and non-ferrous metals

Recommended accessories

Paint brush

The cleaning effect can be supported by mechanically abrasive aids

Spray technology

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Carefully homogenize cleaning products before use. Apply by brush, spray or dip (on request)
- Even longer contact times do not change the stainless steel surface structure, provided the material temperature does not exceed approx. 25 °C. After cleaning, rinse the surface with clean water using a high-pressure cleaner until pH neutrality is achieved. Avoid direct sunlight and high ambient temperatures (storage and processing temperature: 5 – 25 °C).
- Observe the safety data sheet and wear personal protective equipment. Observe 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:	viscose
Color:	green
Odor:	sauer
PH value:	1,4
Density at 20 °C:	1,25 g/cm³

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

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

Hazard pictograms:	GHS05 GHS07
Signal word:	Danger
Hazardous components:	2-Propylheptan-1-ol, ethoxyliert Phosphoric acid

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H302; H314

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

Safety instructions:

P101; P102; P260; P264; P280; P301+P330+P331; P303+P361+P353; P305+P351+P338; P310; P405; P501

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Do not breathe mist/ vapour/spray. Wash thoroughly with water after use.
Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth.
DO NOT induce vomiting. 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 or doctor/physician. Store locked up. Contents/ Dispose of containers in accordance with local and national regulations.

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.

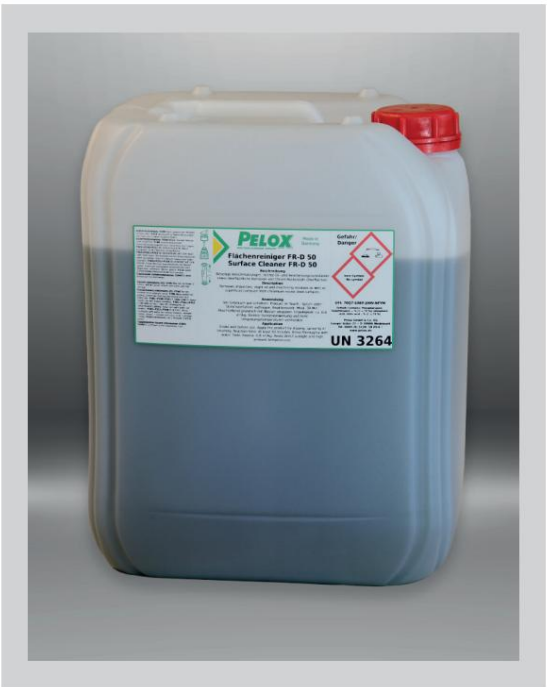
FR-D 50

SURFACE CLEANER

Application/product description Intensive cleaner for surfaces made of chrome-nickel steel Removes organic impurities, dirt deposits, light oil and grease deposits as well as signs of corrosion caused, for example, by sea or chlorinated water or chlorine-containing cleaners

Individual feature Versatile, also as a cleaner after mechanical surface treatment, e.g. grinding or brushing Effective for corrosion problems No subsequent surface changes

Acid concentration



Guideline reaction time at least 30 min.

Depends on material and type and intensity of surface contamination (preliminary test recommended)

Result

Significant brightening of the surface
Removal of corrosion without changing the surface

Yield approx. 6 - 8 m²/kg

Materials to be treated

All common chrome-nickel steels

Recommended accessories

Paint brush

The cleaning effect can be supported by mechanically abrasive aids

Spray technology

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Carefully homogenize cleaning products before use. Apply by brush, spray or dip (on request)
- Even longer contact times do not change the stainless steel surface structure, provided the material temperature does not exceed approx. 25 °C. After cleaning, rinse the surface with clean water using a high-pressure cleaner until pH neutrality is achieved. Avoid direct sunlight and high ambient temperatures (storage and processing temperature: 5 – 25 °C).
- Observe the safety data sheet and wear personal protective equipment. Observe 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:	green
Odor:	biting
PH value:	<1
Density at 20 °C:	1,25 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:	Phosphoric acid
	Nitric acid … % [C ÿ 70%]

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H314

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

Safety instructions:

P260; P280; P301+P330+P331; P303+P361+P353; P305+P351+P338; P310

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

Additional hazard characteristics:
EUH071

Corrosive to the respiratory tract.

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.

FR-D SPECIAL

SURFACE CLEANER

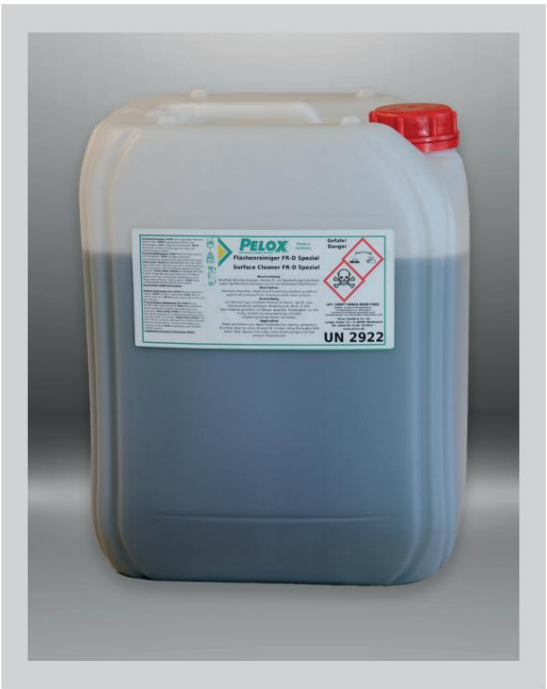
Application/product description Special cleaner for

surfaces made of chrome-nickel steel Removes organic impurities, dirt deposits, light oil and grease deposits and signs of corrosion caused, for example, by sea or chlorinated water or chlorine-containing cleaners Contacting Pelox is recommended before using the product

Individual feature Special acid

mixture for special stainless steel alloys Contains hydrofluoric acid < 1% and must therefore be tested for suitability before use After cleaning, passivation may be necessary

Acid concentration



Guideline reaction time at least 15 min.

Depends on material and type and intensity of surface contamination (preliminary test recommended)

Result

Significant brightening of the surface
Corrosion removal

Yield approx. 6 - 8 m²/kg

Materials to be treated

All higher alloyed chromium-nickel steels

Recommended accessories

Paint brush

The cleaning effect can be supported by mechanically abrasive aids

Spray technology

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Carefully homogenize cleaning products before use. Apply by brush, spray or dip (on request)
- **Even longer contact times do not change the stainless steel surface structure, provided the material temperature does not exceed approx. 25 °C.** After cleaning, rinse the surface with clean water using a high-pressure cleaner until pH neutrality is achieved. Avoid direct sunlight and high ambient temperatures (storage and processing temperature: 5 – 25 °C).
- Observe the safety data sheet and wear personal protective equipment. Observe 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:	viscose
Color:	green
Odor:	sauer
PH value:	1,4
Density at 20 °C:	1,25 g/cm³

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

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

Hazard pictograms:	GHS05 GHS06
Signal word:	Danger
Hazardous components:	Hydrofluoric acid
	2-Propylheptan-1-ol, ethoxyliert
	Phosphoric acid

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H302; H311; H314

May be corrosive to metals. Harmful if swallowed. Toxic in contact with skin. 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 or doctor/physician.

OTHER HAZARDS

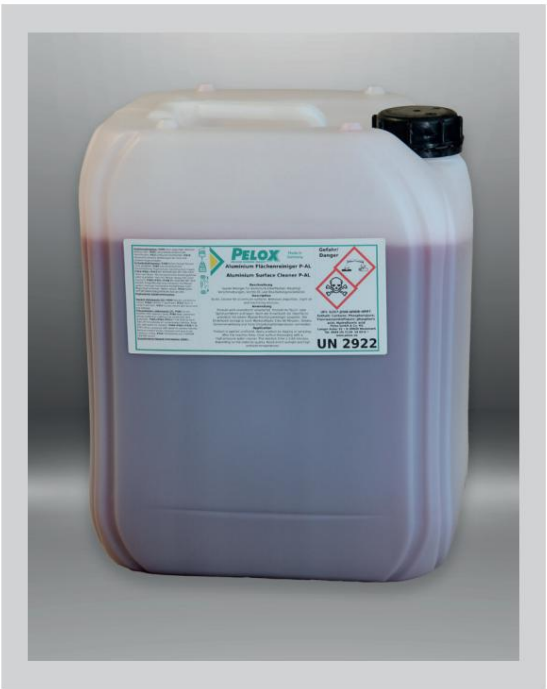
Risk of slipping due to leaking/spilled product.
PBT assessment: According to information submitted in the supply chain, the mixture does not contain any substance with >0.1% considered to be PBT.
vPvB assessment: According to the information submitted in the supply chain, the mixture does not contain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

P-AL
SURFACE CLEANER

Application/product description
Removal of oxides, tarnish and contaminants on aluminium surfaces
After surface treatment, depending on the degree of roughness, the prerequisite for subsequent
Painting or coating given

Individual characteristic
Highly effective, odorless cleaner for aluminum surfaces
Can be applied by spraying or dipping

Acid concentration



Reaction time at least
5 to 20 minutes
depending on the material and bath temperature, the material and the desired surface quality **Result** uniform, brightened material

surface

Yield 6 - 8 m²/kg
(spray method)

Materials to be treated Aluminium surfaces,
but also other metals and alloys (e.g. copper/copper alloys)

Recommended accessories
Surface cleaner or alkaline degreaser
Spray technology
Personal protective equipment

General instructions for use
- The respective product must be tested for suitability before use (pre-test)
- Remove dirt, grease or oil residues before treatment with alkaline cleaner (Pelox cleaning and degreasing agent AR) Carefully
- homogenize the cleaner before use Apply with a suitable spray
- technique (available from Pelox) After the cleaning process, rinse
  the surface with clean water using a high-pressure cleaner (at least 150 bar)
- until pH neutrality is achieved Avoid direct sunlight and high ambient temperatures (recommended storage and processing temperature: 5 – 25 °C)

- Observe the safety data sheet and wear personal protective equipment. Observe 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
Odor:	sauer
PH value:	<1
Density at 20 °C:	1,10 - 1,20 g/cm³

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

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

Hazard pictograms:	GHS05 GHS06
Signal word:	Danger
Hazardous components:	Hydrofluoric acid
	Phosphoric acid

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H302; H311; H314

May be corrosive to metals. Harmful if swallowed. Toxic in contact with skin.
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 or doctor/physician.

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.

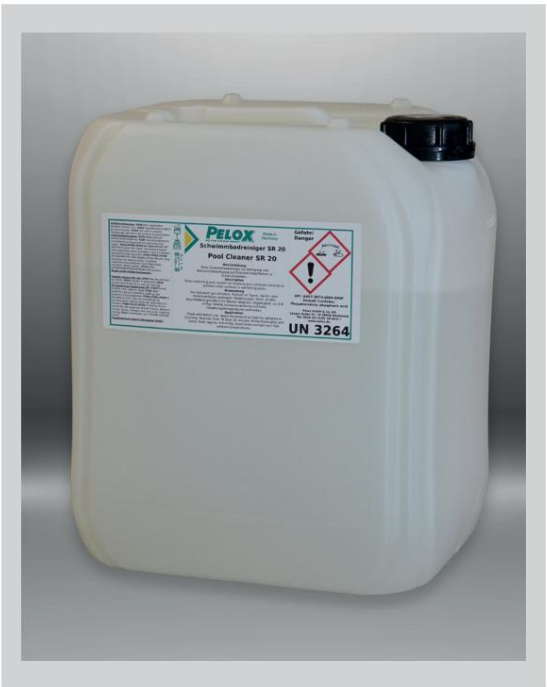
SR-20

SURFACE CLEANER

Application/product description Cleaner for stainless steel surfaces in swimming pools, partly also suitable for non-ferrous metals, organic and inorganic materials (preliminary tests required)

Individual feature Specially developed surface cleaner for swimming pool areas with long wet phases The product can be diluted with up to 10% water depending on the application and degree of soiling Before cleaning, rinse the pool with a high-pressure cleaner (experience has shown that chlorinated water or Adhesions in connection with products that change the surface)

Acid concentration



Guideline reaction time at least 30 min.

Depends on material and type and intensity of surface contamination (preliminary test recommended)

Result

Uniform cleaning without changing the Stainless steel surface

Brightening the surface and removing corrosion

Yield approx. 8 - 10 m²/kg

Materials to be treated

All common chrome-nickel steels

Recommended accessories

Paint brush

The cleaning effect can be supported by mechanically abrasive aids

Spray technology

General instructions for use

- The respective product must be tested for suitability before use (pre-test)
- Carefully homogenize cleaning products before use. Apply by brush, spray or dip (on request)
- **Even longer contact times do not change the stainless steel surface structure, provided the material temperature does not exceed approx. 25 °C.** After cleaning, rinse the surface with clean water using a high-pressure cleaner until pH neutrality is achieved. Avoid direct sunlight and high ambient temperatures (storage and processing temperature: 5 – 25 °C).
- Observe the safety data sheet and wear personal protective equipment. Observe 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:	viscose
Color:	colorless
Odor:	sauer
PH value:	<1
Density at 20 °C:	1,05 g/cm³

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

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

Hazard pictograms:	GHS05 GHS07
Signal word:	Danger
Hazardous components:	Phosphoric acid

DANGER AND SAFETY INFORMATION

Hazard warnings:

H290; H302; H314

May be corrosive to metals. Harmful if swallowed. 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 or doctor/physician.

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.