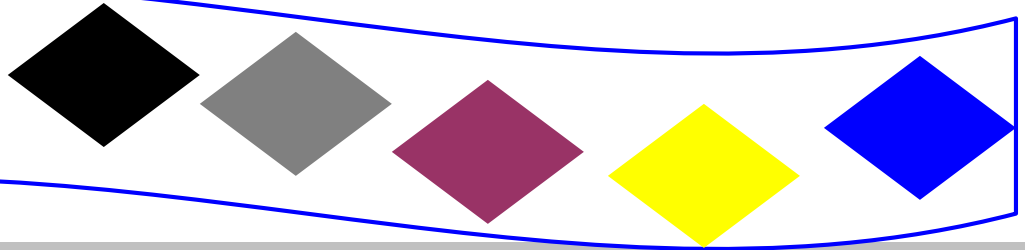
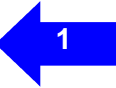


- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICOCYL®-GmbH

Cleaning and maintenance of NICOCYL® Industrial Flooring



General instructions

NICOCYL® Industrial Flooring is predominantly laid in industrial areas. Mechanical abrasion and media attack (e.g. oils, greases and other products) result in various types of contamination, which are often firmly adhered and difficult to remove. These instructions on the use of cleaning agents and equipment were developed on this basis.

The following products are also suitable for use in automatic cleaning systems. All commercial scrubbing machines or automatic cleaning systems can be used.

The processing guidelines for the individual products must be used for processing.

NICOCYL® Specialist Cleaning Agent

Highly effective specialist cleaning agent with a broad range of activity. Effortlessly dissolves grease and oil residues, coatings and stubborn dirt. This cleaning agent is also used to remove dirt generated when laying **NICOCYL® Industrial Flooring** – such as cement and lime residues.

Use

Test on an inconspicuous area before starting work to see if the surface to be treated, for example, is colour fast. The **NICOCYL® Specialist Cleaning Agent** should be used in the following concentrations:

- **Intensive cleaning:** **Concentration 0.5–1.0%**
- **Coating removal (NICOCYL®-NICOFANT):** **Concentration 1:1**

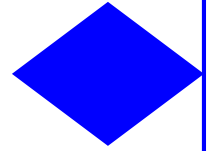
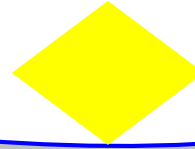
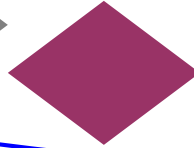
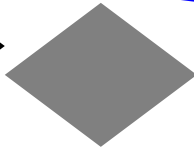
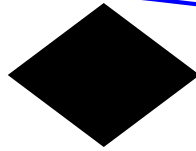
Depending on the use, dilute with water and spread evenly in sections. Leave to work for 5–10 minutes and rework mechanically (e.g. with a scrubber) as required. Apply the cleaning solution using a rubber blade to the next section of the floor, and spread evenly. Remove dissolved dirt/coating and rinse with plenty of clean water. Work with an open window.

- pH value 12

NICOCYL® Cleaner Type B

The environmentally friendly maintenance cleaner for NICOCYL® Industrial Flooring. Free from solvents, acids and alkalis and low in phosphate. This product is better, more effective and more environmentally friendly than conventional cleaning agents. It is a non-flammable cleaning agent with a high capacity to dissolve grease, oil, soot and dirt. NICOCYL® Cleaner Type B also cleans, for example, PVC workshop floors, PVC tarpaulins etc.

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL®-GmbH

Use



Depending on the level of soiling, dilute with water in a ratio of 1:10 to 1:100. Evenly clean the floor using this cleaning solution mechanically or manually. Remove the liquid including the dissolved dirt particles mechanically or manually.

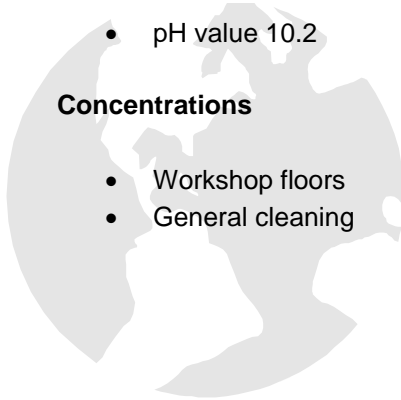
The contained surfactants are < 90% biodegradable according to the RVO requirements of the Detergents and Cleaning Products Act and the provisions of the surfactant regulation (TensVo) of 04.06.1985. The cleaning agent contains no halogenated organic compounds (AOX).

- pH value 10.2

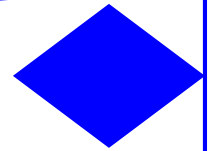
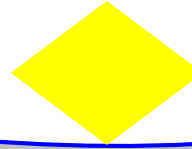
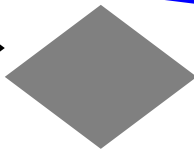
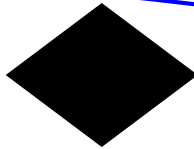
Concentrations

- Workshop floors
- General cleaning

1:10	to	1:100
1:10	to	1:20



- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICOCYL®-GmbH

Safety data sheet according to EU Regulation 453/2010



1 Identification of the substance/preparation and company

- **1.1 Product identifier**
- **Commercial name:** NICOCYL® Specialist Cleaning Agent
- **Use of the substance/preparation:** Cleaning hard surfaces
- **Manufacturer/supplier:**
NICOCYL®-GmbH
Am Rapensweg 213
44581 Castrop-Rauxel, Germany
Tel: +49 (0) 23 05 96 75 0
Fax: +49 (0) 23 05 96 75 15
Website: www.nicocyl.de e-mail: info@nicocyl.de

Hazards identification

- **2.1 Classification of the substance or mixture**
Classification and labelling in accordance with Directive 1272/2008/EC:
AcuteTox, 4; H302 / Skin Corr. 1B; H314 / STOT SE 3; H335
- **2.2 Label elements**
Subject to labelling as per Regulation (EC) No. 1272/2008: Yes.
Do exceptions apply? No.
Signal word: Danger
Ingredient(s): contains 2-(2-(2-butoxyethoxy)ethoxy)ethanol,
Alcohols, C12-15, ethoxylated, ethanolamines, ammonia



Hazard pictograms:

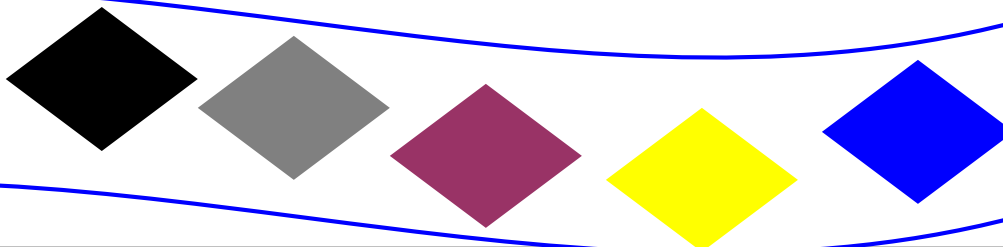
H-phrases:

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H335: May cause respiratory irritation.

P-phrases:

P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL[®]-GmbH

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/.../if you feel unwell.
 P405: Store locked up.
 P501: Dispose of contents/container to special waste collection point.



Special labelling: None.

The above labelling applies when giving to commercial users.

- **2.3 Other hazards**

This mixture contains no substances that are assessed as PBT or vPvB.

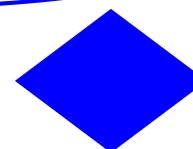
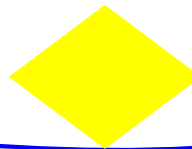
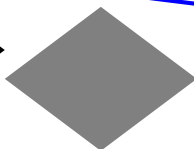
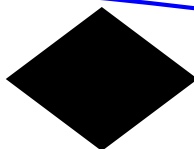
3 Composition/information on ingredients

- **3.1 Hazardous ingredients:**

3.2 Description

CAS No.	EC No.	REACH No.	H-phrases	m%
2-Butoxyethanol			H332/ H312/ H302/ H319/ H315	1-10%
111-76-2	not available	01-2119475108-36-xxxx		
2-Aminoethanol			H332/ H312/ H302/ H314	1-10%
141-43-5	not available	01-2119486455-28-xxxx		
Benzyl alcohol			H332/ H302	1-10%
100-51-6	not available	01-2119492630-38-xxxx		
2-(2-(2-Butoxyethoxy) ethoxy) ethanol			H318	1-5%
143-22-6	not available	not available		
2-(2-Butoxyethoxy) ethanol			H319	1-5%
112-34-5	not available	01-2119475104-44-xxxx		
Sodium cumene sulfonate			H315/ H319	1-5%
28348-53-0	not available	01-2119489411-37-xxxx		
Potassium cumene sulfonate			H315/ H319	1-5%
28085-69-0	not available	not available		
Alcohols, C12-15 ethoxylated			H302/ H318	1-5%
68131-39-5	not available	01-2119488720-33-xxxx		
Trisodium nitrilotriacetate			H351/ H302/ H319	1-4.9%
5064-31-3	not available	not available		
Ammonia solution ...%			H314/ H400	0.1-1%
1336-21-6	not available	not available		
Sodium 2-ethylhexyl sulfate			H315/ H318	1-5%

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL[®]-GmbH

126-92-1 not available 01-2119971586-23-xxxx

5

4 First aid measures

- **In case of inhalation**
After accidental inhalation of combustion gases or decomposition products, move to fresh air. If symptoms continue, consult a doctor.
- **In case of skin contact**
Remove wet clothing, immediately wash affected skin well with water.
- **In case of eye contact**
Rinse eyes with eyelids wide open thoroughly under running water, consult doctor.
- **After swallowing**
Do not induce vomiting due to the risk of suffocation as a result of inhaling foam, call for medical help.

5 Fire-fighting measures

- **Suitable extinguishing media**
Product does not burn when using vaporising water, therefore tailor extinguishing measures to the environment.
- **Unsuitable extinguishing media for safety reasons**
Not applicable.
- **Particular hazards due to the material, combustion products or resulting gases**
Thermal decomposition into carbon monoxide, sulphur oxides and aminic fission products.
- **Special protective equipment**
Gas-tight fire protection suit with self-contained breathing apparatus.

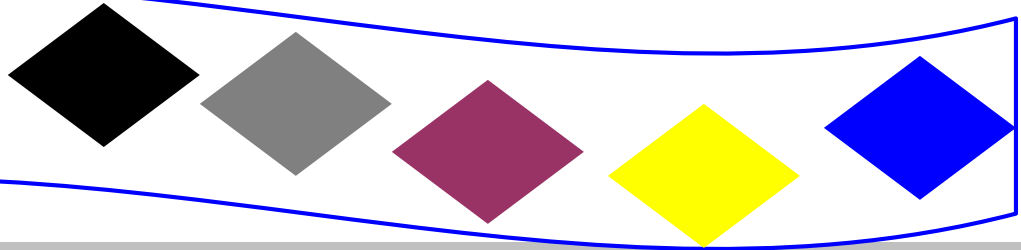
6 Accidental release measures

- **Person-related precautionary measures**
See Section 8 "Exposure controls/personal protection".
- **Environmental protection measures and cleaning**
Do not allow to reach waterways, absorb with absorbent materials, rinse away small quantities with lots of water.
- **Additional information**
Leaked product is a slip hazard.

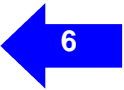
7 Handling and storage

7.1 Precautions for safe handling

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL[®]-GmbH



7.1.1 Advice for safe handling:

Avoid eye and skin contact. Immediately remove contaminated, soaked clothing. Do not eat, drink or smoke when using this product. Wash your hands before breaks and at the end of work. Always add the product to the water when diluting.
Never add water to the product.

7.1.2 Advice on protection against fire and explosion:

Usual fire prevention measures,

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Requirements for storage rooms and containers:

Store the tightly sealed containers in a dry and well-ventilated location.
Store in the original container. Store in a location with an alkali-resistant floor.
Metal containers must be coated. Provide eyewash bottle.

7.2.2 Combined storage advice:

Incompatible with strong acids and oxidising agents.

7.2.3 Further information on storage conditions:

Store tightly sealed, in a cool and dry place.
Protect from frost, heat and sunlight. Corrosive to metals.

7.3 Specific end uses

Not available

8 Exposure controls/personal protection

8.1 Control parameters

Substance name

2-butoxyethanol
2-aminoethanol
2-(2-butoxyethoxy)ethanol
Sodium cumene sulfonate

Control value

OEL: 20 ppm / 98 mg³, TWA: 20 ppm / 98 mg / m³
OEL: 2 ppm / 5.1 m/m³, TWA: 1 ppm / 2.5 mg/m³
OEL: 10 ppm / 67 mg/m³, TWA: 10 ppm / 67.5 mg/m³
OEL particulate: 10 mg/m³ (inhalable fraction); 3 mg/m³ (alveolar fraction)
OEL particulate: 10 mg/m³ (inhalable fraction); 3 mg/m³ (alveolar fraction)

Potassium cumene sulfonate

8.2 Restriction and monitoring of exposure

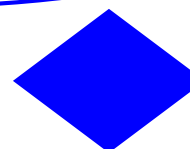
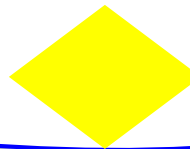
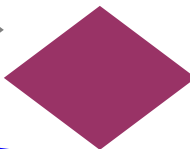
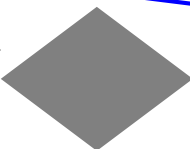
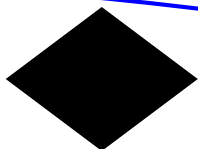
8.2.1 Appropriate engineering controls

Ensure good ventilation and extraction on the processing machines.

8.2.2 Individual protection measures

8.2.2a **Respiratory protection:** Not required under normal use.

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL[®]-GmbH

- 8.2.2b **Hand protection:** Wear breathing apparatus if insufficient ventilation.
Protective gloves according to EN 374. Butyl rubber penetration time >8 h).
- 8.2.2c **Eye protection:** tightly sealed safety goggles
- 8.2.2d **Body protection:** Protective clothing
- 8.2.2e **Other:** Observe wear time limits.
- 8.2.3 **Restriction and monitoring of environmental exposure:**
Not available.



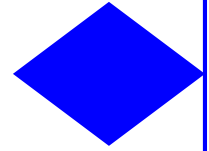
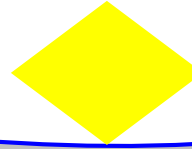
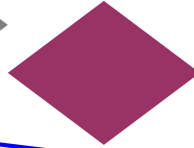
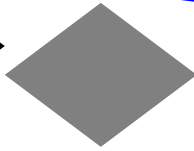
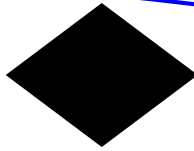
9 Physical and chemical properties

- **Appearance**
- **Form:** Liquid
- **Colour:** Orange
- **Odour:** Characteristic
- **Safety-relevant data**

Melting point/melting range		Not available.
Boiling point/boiling range		from 100 °C
Flash point		None, see Section 5.
pH value (concentrate)	(for T = 20 °C)	11.75 ± 0.25
Flammability		Not applicable.
Ignition temperature		Not applicable.
Self-ignition		Not applicable.
Oxidising properties		Not applicable.
Risk of explosion		Not applicable.
Explosion limits	lower:	Not applicable.
	upper:	Not applicable.
Solvent content (wt.%)		10 – 20
Density	(at T = 20 °C)	(1.025 + 0.005) g/cm ³
Solubility in H ₂ O	(at T = 20 °C)	Soluble in any ratio.
Vapour pressure	(at T = 20 °C)	Not available.
Vapour density	(air = 1)	Not available.
Distribution coefficient	(n-octanol/water)	Not available.
Viscosity	(at T = 20 °C)	Low viscosity.
Solvent-separation test		Not applicable.
Solvent content		10 – 20%
Evaporation number		Not available.

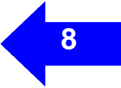
10 Stability and reactivity

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL®-GmbH

- **Conditions to avoid**
See Section 7 "Handling and storage".
- **Materials to avoid**
Exothermic reaction with strong oxidising agents.
- **Hazardous decomposition products**
In the event of fire, see Section 5.
- **Further information**
None.



11 Toxicological information

• 11.1 Information on toxicological effects

Acute toxicity:

Inhalation:

Swallowing:

Skin contact:

Corrosive effect/irritation on the skin:

Severe eye damage/irritation:

Specific target organ toxicity following exposure:

Not available

ATEmix: 1818 mg/kg

Not available

Causes serious burns.

Causes serious eye damage.

May cause respiratory irritation.

12 Ecological information

12.1 Toxicity

No quantitative data on the ecological effect of this product is available.

12.2 Persistence and degradability

Neutralisation is generally required before entering wastewater in wastewater treatment plants. The surfactants contained are more than 60% biodegradable.

12.3 Bioaccumulation potential

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of the PBT and vPvB assessment

This mixture contains no substances that are assessed as PBT or vPvB.

12.6 Other adverse effects

12.6.1 CSB value, mg/g

Not available.

12.6.2 BSB5 value, mg/g

Not available.

12.6.3 AOX note:

Not applicable.

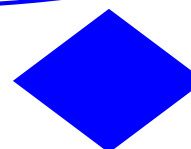
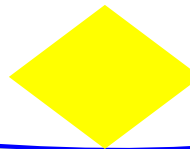
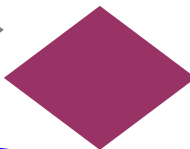
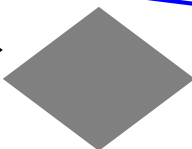
12.6.4 Ecologically relevant components

Not available.

12.6.5 Other adverse effects:

Not applicable.

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL®-GmbH

13 Disposal considerations

Disposal of product and uncleaned containers in compliance with local regulations.

Waste code according to European Waste Catalogue (2000/532/EC)

20 01 29 Cleaning agents that contain hazardous substances



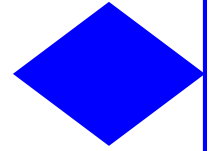
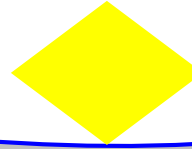
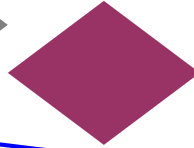
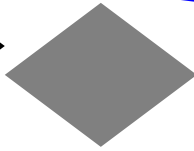
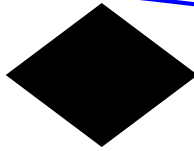
14 Transport information

	ADR	IMDG	IATA
14.1 UN number	1760	1760	1760
14.2 UN proper shipping name UN 1719 Corrosive liquid substance, (contains: ethanol amines, ammonia)		Corrosive liquid substance, (ethanolamines, ammonia)	Corrosive liquid, (contains: ethanolamines, ammonium hydroxide)
14.3 Transport hazard classes	8	8	8
14.4 Packaging group	II	II	II
14.5 Environmental hazards		No.	
14.6 Special precautions for the user Carriage category: 3 Packaging instruction Classification code: (Passenger aircraft): Hazard number: 80			F-A,S-B C9 852 (Cargo aircraft): 856 LQ: 5 L
14.7 Transport in bulk according to Annex II of the MARPOL convention and the IBC code			Not available.

15 Regulatory information

15.1 **Safety, health and environmental regulations/specific legislation for the substance or mixture**

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL[®]-GmbH

15.1.1 **Observe employment restriction as per MuSchG (Maternity Act) / JArbSchG (Employment of Young Persons Act):** Yes.

15.1.2 **Retention obligation as per § 8 (6) GefStoffV (German Ordinance on Hazardous Substances):** Yes.

15.1.3 **Störfallverordnung (German Hazardous Incident Ordinance):** No.

15.1.4 Technical Instructions Air (TA-Luft):	Class	Number	Proportion m%
		5.2.5	10-20%

15.1.5 **Water hazard class:** 1; Classification according to the administrative regulation on substances hazardous to water (VwVwS)

15.1.6 **Storage class:** 8B

15.1.7 **Observe scope of TRGS 510:** No.

15.1.8 **Observe scope of TRG 300:** No.

15.1.9 **Observe scope of WRMG (Detergents and Cleaning Products Act):** Yes.

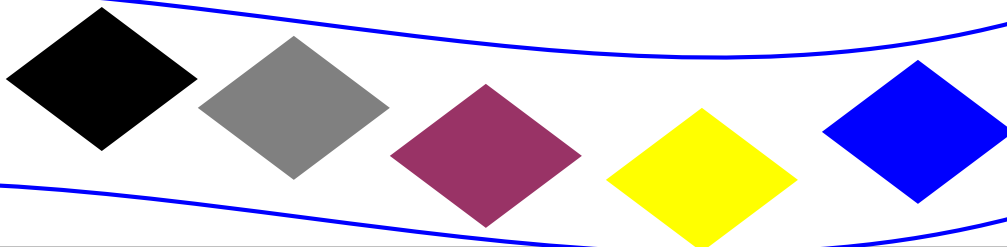
15.1.10 **Other legislation to consider:** DetV (Detergents Regulation)

15.2 **Chemical safety assessment:** None.

16 Other information

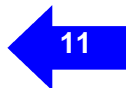
This safety data sheet was created in accordance with EU Regulation 453/2010. The information provided is based on our current knowledge and experience at the point of publication, it does not constitute a guarantee of properties. It must not be modified nor transferred to other products. Reproduction in original state is permitted.

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICOCYL®-GmbH

Safety data sheet according to 1907/2006/EC, Article 31



1 Identification of the substance/preparation and company

- **1.1 Product identifier**
- **Commercial name:** NICOCYL® Cleaner Type B
- **Relevant identified uses of the substance or mixture, and uses advised against**
- **Use sector**
 SU3 Industrial uses: Uses of substances as such or in preparations in industrial sites
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC35 Washing and Cleaning Products (including solvent-based products)
- **Process category**
 PROC7 Industrial spraying
 PROC10 Roller application or brushing
 PROC19 Hand-mixing with intimate contact and only PPE available
- **Environmental release category**
 ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
 ERC8d Widespread use of functional fluid (outdoor)
- **Use of the substance/mixture:** Cleaning
- **Details on the supplier that provided the safety data sheet**
- **Manufacturer/supplier:**
 NICOCYL®-GmbH **Emergency telephone number**
 Am Rapensweg 213
 44581 Castrop-Rauxel, Germany
 Tel: +49 (0) 23 05 96 75 0
 Fax: +49 (0) 23 05 96 75 15
 Website: www.nicocyl.de e-mail: info@nicocyl.de

2 Hazards identification

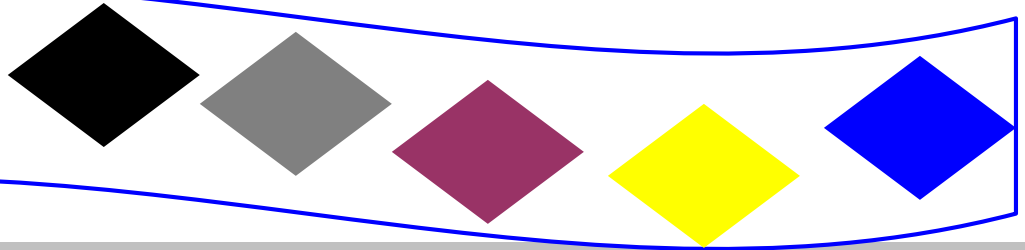
- **Classification of the substance or mixture**
- **Classification as per Regulation (EC) No. 1272/2008**



GHS07
 Eye Irrit. 2 H319 Causes serious eye irritation.

- **Labelling elements**
- **Labelling as per Regulation (EC) No. 1272/2008**

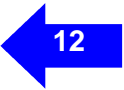
- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL[®]-GmbH

The product is classified and labelled in accordance with the CLP Regulation.

- **Hazard pictogram** GHS07
- **Signal word** Warning
- **Hazard statements**
H319 Causes serious eye irritation.
- **Prevention precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
- **Other hazards**
- **Results of the PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB** Not applicable.



3 Composition/information on ingredients

- **Chemical characterisation: Mixture**
Description: Mixture of the substances listed below with non-hazardous additions.
- **Hazardous constituents:**

CAS: 7320-34-5	Tetrapotassium diphosphate	10-25%
EINECS: 230-785-7	Eye Irrit. 2, H319	
CAS: 69011-36-5	Isotridecanol, 9-10 EO	<2.5%
	Acute Tox.4, H302; Skin Irrit.2, H315; Eye Irrit.2, H319	
- **Additional information:** For the wording of the listed risk phrases, refer to Section 16.

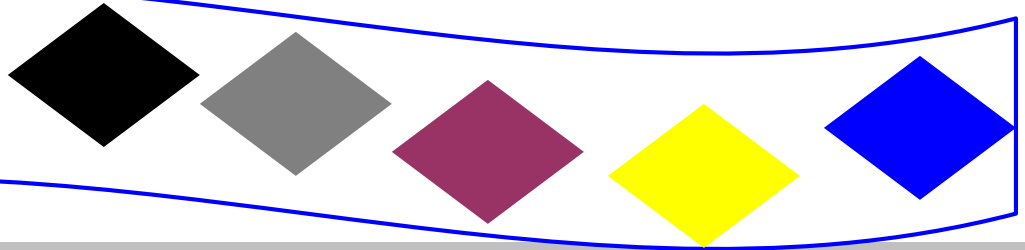
4 First aid measures

- **General information:** Immediately remove items of clothing that are contaminated by the product.
- **After skin contact:** Immediately wash with soap and water and rinse well.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse eyes for several minutes under running water with eyelids open. If symptoms continue, consult a doctor.
- **After swallowing:** Do not induce vomiting, seek medical help immediately.
- **Advice for doctors:** Treat symptomatically

5 Fire-fighting measures

- **Suitable extinguishing media**
Water spray, foam, powder, CO₂.
- **In case of fire, product may form:**
Organic crack products, carbon oxides and nitrogen oxides.

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICO CYL[®]-GmbH

Density	1.11 at 20 °C
Vapour pressure	Not available
Solubility in water	Soluble.
Organic solvents	0.2%

14

10 Stability and reactivity

- Stable under normal conditions. Protect from frost.
- **Hazardous decomposition products**
None if handled properly.

11 Toxicological information

- **Acute toxicity**
- **LD/LC50 values relevant to classification:**
- **5989-27-5 @-p-mentha-1,8-diene**
Oral LD50 440 mg/kg (rat)
Degreasing. Repeated or prolonged contact with the product may cause dryness and temporary redness.
- **Eye contact**
Can have an irritating effect.
- **Swallowing**
Very low acute toxicity

12 Ecological information

- **Persistence and degradability**
Contains no halogenated organic compounds (AOX).
The contained surfactants are at least 90% biodegradable in accordance with the RVO requirements of the Detergents and Cleaning Products Act.
- **Ecologically relevant components**
None.

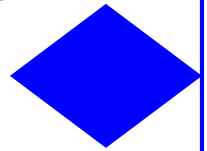
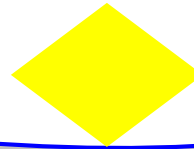
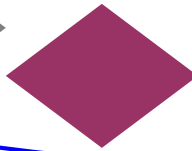
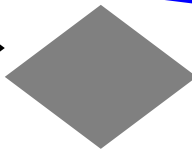
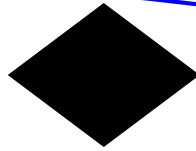
13 Disposal considerations

- Disposal in compliance with local regulations.
- **Disposal recommendation**
e.g. treatment plant.
- **European List of Waste** 07 06 01 aqueous washing liquids and mother liquors

14 Transport information

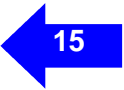
- No dangerous goods according to GGVS/GGVE.

- KUNSTSTOFFPRODUKTION
- VERTRIEB
- METALLHANDEL



NICOCYL®-GmbH

15 Regulatory information



- **Labelling according to the Hazardous Goods Ordinance/EC directives**
Not hazardous in accordance with the Hazardous Goods ordinance/EC directives.
- **National regulations**
Employment restriction according to GefStoffV (German Ordinance on Hazardous Substances)
No.
Retention obligation as per § 24 GefStoffV No.
Störfallverordnung (Hazardous Incident Ordinance) Not applicable.
VbF (Regulation on flammable liquids) Not applicable.
TA air pollution regulation Class: NK percentage 0.2
WHC 1, mildly water-polluting
WRMG (Detergent and Cleaning Products Act) scope Yes.

16 Other information

Relevant phrases:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

This information is based on the current state of our knowledge and does not constitute any guarantee of properties.
Compliance with applicable laws and regulations is the sole responsibility of the recipients of the product.