

neoform K plus

Version: 5 / GB

Replaces Version: 4 / GB

Date revised: 11.12.2018

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

neoform K plus

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

Identified Uses

PC8	Biocidal products (e.g. Disinfectants, pest control)
PC35	Washing and cleaning products (including solvent based products)

1.3. Details of the supplier of the safety data sheet

Address:

Chemische Fabrik Dr. Weigert GmbH & Co. KG
Mühlenhagen 85
D-20539 Hamburg
Telephone no. +49 40 789 60 0
Fax no. +49 40 789 60 120
www.drweigert.com

E-mail address of person responsible for this SDS:

sida@drweigert.de

1.4. Emergency telephone number

GBK/ Infotrac: (USA domestic) +1 800 535 5053 or international +1 352 323 3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)	
Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

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Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.
 P391ro
 P501ro

Dispose only when container is empty and closed. For disposal of product residues, refer to Safety Data Sheet.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains didecyldimethylammonium chloride; N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine; isotridecanol, ethoxylated

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

isotridecanol, ethoxylated

CAS No.	69011-36-5				
Concentration	>= 1	<	10		%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4		H302		
	Eye Dam. 1		H318		

Ethanediol

CAS No.	107-21-1				
EINECS no.	203-473-3				
Registration no.	01-2119456816-28				
Concentration	>= 1	<	10		%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4		H302		

Propan-2-ol

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-2119457558-25				
Concentration	>= 1	<	10		%
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 2		H225		
	Eye Irrit. 2		H319		
	STOT SE 3		H336		

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

CAS No.	2372-82-9				
EINECS no.	219-145-8				
Registration no.	01-2119980592-29				
Concentration	2,0				%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 3		H301		Route of exposure: oral
	Skin Corr. 1B		H314		

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Eye Dam. 1	H318
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 M = 10

didecyldimethylammonium chloride

CAS No. 7173-51-5

EINECS no. 230-525-2

Registration no. 01-2119945987-15

Concentration 10,0 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Skin Corr. 1B H314

Other information

Complete text of hazard statements in chapter 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. In case of irritation consult an oculist.

After ingestion

Rinse mouth thoroughly with water.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

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5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Observe the usual precautions for handling chemicals. Keep container tightly closed.

Advice on protection against fire and explosion

The product is combustible.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value > 0 < 30 °C

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class according to TRGS 510

Storage class according to TRGS 510 8A Combustible corrosive hazardous substances

7.3. Specific end use(s)

no data

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Ethanediol

List EH40
Type WEL

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Value 10 mg/m³
Skin resorption / sensibilisation: Sk; Status: 2011

Propan-2-ol

List EH40
Type WEL
Value 999 mg/m³ 400 ppm(V)
Short term exposure limit 1250 mg/m³ 500 ppm(V)
Status: 2011

Other information

There are not known any further control parameters.

8.2. Exposure controls

General protective and hygiene measures

Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work.

Respiratory protection

Not necessary, but do not inhale vapours. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Hand protection

Chemical resistant gloves
Use Permanent hand contact
Appropriate Material neoprene
Material thickness \geq 0,65 mm
Breakthrough time $>$ 480 min
Appropriate Material nitrile
Material thickness \geq 0,4 mm
Breakthrough time $>$ 480 min
Appropriate Material butyl
Material thickness \geq 0,7 mm
Breakthrough time $>$ 480 min
Use Short-term hand contact
Appropriate Material nitrile
Material thickness \geq 0,11 mm
Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid
Colour colourless
Odour characteristic
Odour threshold
Remarks not determined
pH value
Value appr. 9,4
Temperature 20 °C
Melting point
Remarks not determined

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Freezing point

Remarks not determined

Initial boiling point and boiling range

Remarks not determined

Flash point

Value 57,5 °C
 Method Regulation (EC) No. 440/2008, Annex, A.9
 Remarks Negative results are obtained in the sustained combustibility test (UN test L.2).

Evaporation rate (ether = 1) :

Remarks not determined

Flammability (solid, gas)

evaluation not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

Density

Value 0,99 g/cm³
 Temperature 20 °C

Solubility in water

Remarks miscible in all proportions

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

kinematic

Value 38,9 mm²/s
 Temperature 20 °C

kinematic

Value 11,9 mm²/s
 Temperature 40 °C

Explosive properties

evaluation no

Oxidising properties

evaluation None known

9.2. Other information

Other information

None known

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SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Species	rat			
LD50	appr. 1800			mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)			

Acute oral toxicity (Components)

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

Species	rat			
LD50	50	to	300	mg/kg
Method	OECD 401			

didecyldimethylammonium chloride

Species	rat			
LD50	300	to	2000	mg/kg
Method	OECD 401			

isotridecanol, ethoxylated

Species	rat			
LD50	300	to	2000	mg/kg

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

evaluation irritant

Serious eye damage/irritation

evaluation irritant - risk of serious damage to eyes

Sensitization

Remarks Based on available data, the classification criteria are not met.

Subacute, subchronic, chronic toxicity

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Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Remarks not determined

Aspiration hazard

No special hazards have to be mentioned.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

There is no data available on the product apart from the information given in this subsection.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

Species	zebra fish (<i>Brachydanio rerio</i>)			
LC50	0,1	to	1	mg/l
Duration of exposure	96	h		
Method	OECD 203			

didecyldimethylammonium chloride

Species	zebra fish (<i>Brachydanio rerio</i>)			
LC50	0,97			mg/l
Duration of exposure	96	h		
Method	OECD 203			

isotridecanol, ethoxylated

Species	carp (<i>Cyprinus carpio</i>)			
LC50	1	to	10	mg/l
Duration of exposure	96	h		
Method	OECD 203			

Daphnia toxicity (Components)

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

Species	Daphnia magna			
EC50	0,01	to	0,1	mg/l
Duration of exposure	48	h		
Method	OECD 202			

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

Species	Daphnia magna			
NOEC	0,01	to	0,1	mg/l
Duration of exposure	221	d		
Method	OECD 211			

didecyldimethylammonium chloride

Species	Daphnia magna			
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EC50 0,057 mg/l
Duration of exposure 48 h
Method OECD 202

isotridecanol, ethoxylated

Species Daphnia magna
EC50 1 to 10 mg/l
Duration of exposure 48 h
Method OECD 202

Algae toxicity (Components)

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

Species Scenedesmus subspicatus
EC50 0,01 to 0,1 mg/l
Duration of exposure 72 h
Method OECD 201

didecyldimethylammonium chloride

EC50 0,053 mg/l
Duration of exposure 72 h
Method OECD 201

isotridecanol, ethoxylated

Species Scenedesmus subspicatus
EC50 1 to 10 mg/l
Duration of exposure 72 h
Method OECD 201

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

Evaluation of persistence and bioaccumulation potential

The product contains no PBT or vPvB substances.

12.6. Other adverse effects

General information

not determined

General information / ecology

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1903	1903	1903
14.2. UN proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (didecyldimethylammonium chloride, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS
Tunnel restriction code	E		
IMDG-Code segregation group		0 Not applicable	

Information for all modes of transport

14.6. Special precautions for user

See Sections 6 to 8

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information ***

15.1. Safety, health and environmental regulations/legislation specific for the substance

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or mixture

Major-accident categories acc. 2012/18/EU

Category	E1	Hazardous to the Aquatic Environment	100	t	200	t
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Ingredients (Regulation (EC) No 648/2004)

5 % or over but less than 15 %:

non-ionic surfactants

Further ingredients

disinfectants

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

VOC

VOC (EU) 0 %

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
IMDG: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
IBC: Intermediate Bulk Container

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CAS: Chemical Abstracts Service
VOC: Volatile Organic Compound
LD: Lethal dose
LC: Lethal concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very persistent and very bioaccumulative
SVHC: Substances of very high concern

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a
guarantee for any specific product properties and shall not establish a legally valid relationship.