

Trade name: K FORTE

Substance number: SUB302020370000

Version: 9 / EU

Date revised: 08.04.2019

the date of issue: 12.03.07

Replaces Version: 8 / EU

Print date: 18.04.19

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

1.1. Product identifier

K FORTE

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

Use of the substance/preparation

Sanitary cleanser, For industrial application only.

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
A-5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-Mail regulatoryaffairs@hagleitner.at
Information provided by / telephone Regulatory Affairs
E-mail address of person responsible for this SDS regulatoryaffairs@hagleitner.at

Address/Supplier

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
AT5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-mail address of person responsible for this SDS regulatoryaffairs@hagleitner.at

1.4. Emergency telephone number

Anti Poison Center Vienna: +43 (0)1 406 43430

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Met. Corr. 1	H290
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

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**Signal word**

Danger

Hazard statements

H290 May be corrosive to metals.
 H315 Causes skin irritation.
 H335 May cause respiratory irritation.
 H318 Causes serious eye damage.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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.

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

contains Hydrochloric acid

For industrial application only.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008)****Hydrochloric acid**

CAS No. 7647-01-0
 EINECS no. 231-595-7
 Registration no. 01-2119484862-27-XXXX
 Concentration >= 10 < 14 %

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

Skin Corr. 1B H314
 STOT SE 3 H335

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

STOT SE 3 H335 >= 10
 Skin Corr. 1B H314 >= 25
 Skin Irrit. 2 H315 <= 10 < 25
 Eye Irrit. 2 H319 <= 10 < 25

Isotridecanoethoxylate

CAS No. POLYMER
 EINECS no. N.A.
 Registration no. 02-2119552461-55-0000
 Concentration >= 3 < 4,1 %

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

Eye Dam. 1 H318
 Acute Tox. 4 H302

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

Eye Dam. 1	H318	>= 10 %
	H319	< 10 %

2-Butoxyethanol

CAS No. 111-76-2

EINECS no. 203-905-0

Registration no. 01-2119475108-36-XXXX

Concentration >= 1 < 5,3 %

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

Skin Irrit. 2	H315
Acute Tox. 4	H332
Acute Tox. 4	H312
Acute Tox. 4	H302
Eye Irrit. 2	H319

4,5-Dihydro-2-heptadecyl-1H-imidazole-1-ethylamine

CAS No. 3010-23-9

EINECS no. 221-133-2

Concentration >= 0,1 < 0,25 %

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

Aquatic Acute 1	H400
Aquatic Chronic 1	H410
Skin Corr. 1B	H314

Ingredients (Regulation (EC) No 648/2004)

less than 5 %:

non-ionic surfactants

allergenic fragrances (>0,01% by weight):

HEXYL CINNAMAL

LIMONENE

further ingredients:

perfumes

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

When spray fog inhaled, seek medical aid immediately and show the physician the packing or the packing label. 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. Seek medical advice immediately.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Shield unaffected eye. Eye treatment by an Oculist.

After ingestion

Do not induce vomiting. Drink water in small gulps. Never give anything by mouth to an unconscious person. Take medical treatment.

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

The following symptoms may occur: Shortness of breath, Coughing

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

Hints for the physician / hazards

Risk of stomach perforation; Risk of respiratory disorders

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, ABC powder, Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

None known

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Wear full protective suit. In case of combustion use a suitable breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. High risk of slipping due to leakage/spillage of product. 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 surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Rinse away rest with plenty of water. Dispose of as prescribed.

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

Use only alkali-proof equipment. Observe the usual precautions for handling chemicals. Handle and open container with care.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

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Value \geq 5 \leq 25 °C**Storage stability**

Storage life: 3 years

Requirements for storage rooms and vessels

Keep only in the original container. Provide alkali-resistant floor.

Hints on storage assembly

Do not store together with: Acids, Do not store together with foodstuffs.

Further information on storage conditions

Keep container tightly closed; open and handle with care. Protect from frost.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Other information**

Maintain air concentrations below occupational exposure standards.

8.2. Exposure controls**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Observe the usual precautions for handling chemicals.

Respiratory protection

Not necessary, but do not inhale vapours. Breathing apparatus in the event of aerosol or mist formation.

Hand protection

Gloves (alkali-resistant)

Appropriate Material	nitrile		
Material thickness	=	0,1	mm
Breakthrough time	>	480	min

z.B.: BRILLANT nitrilX-TREME, Art.-Nr. 4451001000 oder BRILLANT nitrilSTYLE, Art.-Nr. 4451001300

Gloves (alkali-resistant)

Appropriate Material	neoprene		
Material thickness	=	0,35	mm
Breakthrough time	>	480	min

Eye protection

Tightly fitting safety glasses

Body protection

Alkali-resistant protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	yellow to brown
Odour	pungent

pH value

Value	appr.	2,5	
Concentration/H ₂ O		100	%
Temperature		20	°C
Remarks	strongly acidic		
Value	appr.	2,6	
Concentration/H ₂ O		10	g/l

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Temperature 20 °C

Freezing point

Value appr. -4 to 4 °C

Sublimation point

Remarks not determined

Initial boiling point and boiling range

Value appr. 100 °C

Flash point

Value > 200 °C

Evaporation rate

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Upper/lower flammability or explosive limits

Remarks Not applicable

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

DensityValue 1,068 g/cm³**Solubility in water**

Remarks Completely miscible

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks Not applicable

Decomposition temperature

Remarks No decomposition if used as prescribed.

Viscosity

Remarks not determined

Oxidising properties

Remarks Not applicable

9.2. Other information**Bulk density**

Remarks not determined

Packed bulk density

Remarks not determined

Solids content

Remarks not determined

Surface tension

Remarks not determined

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Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactions with acids and strong oxidising agents.

10.2. Chemical stability

Protect from extreme heat and cold.

10.3. Possibility of hazardous reactions

Protect from contamination.

10.4. Conditions to avoid

Do not store at temperatures below -5 °C.

Decomposition temperature

Remarks No decomposition if used as prescribed.

10.5. Incompatible materials

Product reacts with: Acids, Oxidising agents

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**ATE 8.729,56 mg/kg
91

Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)**Isotridecanoethoxylate**Species rat
LD50 = 500 to 2000 mg/kg
Method OECD-Directive 423**Acute dermal toxicity**ATE > 10.000 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)**Acute inhalational toxicity**ATE > 100 mg/l
Administration/Form Vapors
Method calculated value (Regulation (EC) No. 1272/2008)
ATE > 20 mg/l
Administration/Form Dust/Mist
Method calculated value (Regulation (EC) No. 1272/2008)**Skin corrosion/irritation**

evaluation strongly corrosive

Serious eye damage/irritation

evaluation strongly corrosive

Sensitization

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evaluation non-sensitizing

Subacute, subchronic, chronic toxicity

Remarks No data available

Mutagenicity

Remarks No data available

Reproductive toxicity

Remarks No data available

Carcinogenicity

Remarks No data available

Specific Target Organ Toxicity (STOT)

Remarks No data available

Experience in practice

The product has a strong caustic effect on the skin, eyes and mucous membranes.

Other information

Product specific toxicological data are not known.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Reference substance	Isotridecanoethoxylate		
CAS No.	POLYMER		
Species	golden orfe (<i>Leuciscus idus</i>)		
LC50	1	to	10 mg/l
Duration of exposure	96	h	

Reference substance	Hydrochloric acid		
CAS No.	7647-01-0		
Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	7,45		mg/l
Duration of exposure	96	h	

Reference substance	2-Butoxyethanol		
CAS No.	111-76-2		
Species	Bluegill (<i>Lepomis macrochirus</i>)		
LC50	> 100		mg/l
Duration of exposure	96	h	
Source	Literature value		

Reference substance	4,5-Dihydro-2-heptadecyl-1H-imidazole-1-ethylamine		
CAS No.	3010-23-9		
LC50	0,35		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Fish toxicity (Components)**Isotridecanoethoxylate**

Species	golden orfe (<i>Leuciscus idus</i>)		
LC50	= 1	to	10 mg/l
Source	Manufacturer's data		

Daphnia toxicity

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Reference substance	Hydrochloric acid			
CAS No.	7647-01-0			
Species	Daphnia magna			
EC50	0,492			mg/l
Duration of exposure	48	h		

Reference substance	2-Butoxyethanol			
CAS No.	111-76-2			
Species	Daphnia magna			
EC50	> 100			mg/l
Duration of exposure	24	h		
Source	Literature value			

Reference substance	4,5-Dihydro-2-heptadecyl-1H-imidazole-1-ethylamine			
CAS No.	3010-23-9			
Species	Daphnia magna			
EC50	0,29			mg/l
Duration of exposure	48	h		
Method	OECD 202			

Daphnia toxicity (Components)**Isotridecanoethoxylate**

EC50	=	1	to	10	mg/l
Duration of exposure	=	72	h		

Algae toxicity

Reference substance	Hydrochloric acid			
CAS No.	7647-01-0			
EC50	0,78			mg/l
Duration of exposure	72	h		

Reference substance	2-Butoxyethanol			
CAS No.	111-76-2			
Species	Desmodesmus subspicatus (green alga)			
EC50	> 100			mg/l
Duration of exposure	7	d		
Source	Literature value			

Algae toxicity (Components)**Isotridecanoethoxylate**

EC50	=	1	to	10	mg/l
Duration of exposure	=	72	h		

Bacteria toxicity (Components)**Isotridecanoethoxylate**

Species	activated sludge			
EC10	> 10000			mg/l
Duration of exposure	=	17	h	
Method	DIN 38412 Part8			
Source	Manufacturer's data			

12.2. Persistence and degradability**General information**

No data available

12.3. Bioaccumulative potential

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General information

No data available

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

No data available

12.5. Results of PBT and vPvB assessment**General information**

Not applicable

12.6. Other adverse effects**General information**

not determined

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**EWC waste code 20 01 15* alkalines
Dispose of as hazardous waste.**Disposal recommendations for packaging**EWC waste code 20 01 39 plastics
Completely emptied packagings can be given for recycling.**SECTION 14: Transport information****Land transport ADR/RID****14.1. UN number**

UN 3264

14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)

14.3. Transport hazard class(es)

Class 8

Label 8

14.4. Packing group

Packing group III

Limited Quantity 5 l

Transport category 3

14.5. Environmental hazards

-

Tunnel restriction code E

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 3264

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14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group III

14.5. Environmental hazards

-

Air transport ICAO/IATA**14.1. UN number**

UN 3264

14.2. UN proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group III

14.5. Environmental hazards

-

Information for all modes of transport**14.6. Special precautions for user**

The relevant transport regulations have to be considered.

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

not determined

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****less than 5 %:**

non-ionic surfactants

Further ingredients

Eugenol, alpha-Hexylcinnamaldehyde, alpha-iso-Methylionone, (R)-p-mentha-1,8-diene, Citral

Water Hazard Class (Germany)

Water Hazard Class WGK 2

(Germany)

Remarks

Classification according to Annex 4 VwVwS

VOC

VOC (CH) = 2 %

VOC (EU) = 2 %

15.2. Chemical safety assessment

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

SECTION 16: Other information

Alterations/supplements: Alterations to the previous edition are marked with an asterisk (*) in the left-hand margin.

Hazard statements listed in Chapter 3

H302

Harmful if swallowed.

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H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 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
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, 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
CAS: Chemical Abstracts Service
IMDG: International Maritime Code for Dangerous Goods
EAK: Europäischer Abfallkatalog
EINECS: European Inventory of Existing Commercial Chemical Substances
VOC: Volatile Organic Compound
INCI: International Nomenclature of Cosmetic Ingredients
MAK: Maximale Arbeitsplatz-Konzentration
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
NOEL: No observable effect level
NOEC: No observable effect concentration
LD: Lethal dose
LC: Lethal concentration
GHS: Globally Harmonized System of classification and Labelling of Chemicals
EU: European Union
EC: European Community
IMO: International Maritime Organization
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
DNEL: Derived no effect level
DMEL: Derived minimal effect level
PNEC: Predicted no effect concentration
CEFIC: European Chemical Industry Council
UN: United Nations

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.

