

Trade name: K FORTE

Substance number: SUB302020370000

Version: 7 / EU

Date revised: 26.11.2015

the date of issue: 12.03.07

Replaces Version: 6 / EU

Print date: 22.12.15

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 Regulatory Affairs
by / telephone
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

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 regulatoryaffairs@hagleitner.at
person responsible
for this SDS

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 Irrit. 2	H319
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 *****

Warning

Hazard statements ***

H290 May be corrosive to metals.
 H315 Causes skin irritation.
 H335 May cause respiratory irritation.
 H319 Causes serious eye irritation.

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 $\leq 10 < 25$
 Eye Irrit. 2 H319 $\leq 10 < 25$

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

Registration no. PRE

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 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 Occulist.

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, Gastrointestinal complaints

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

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. Avoid contact with skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol. High risk of slipping due to leakage/spillage of product. 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). Pump off large amounts. 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

Handle and open container with care. Observe the usual precautions for handling chemicals. Use only acid resistant equipment.

Advice on protection against fire and explosion

The product is not combustible. 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 acid-resistant floor.

Hints on storage assembly

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

Further information on storage conditions

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

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**

Observe the usual precautions for handling chemicals. Do not eat, drink or smoke during work time.

Keep away from foodstuffs and beverages.

Respiratory protection

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

Hand protection

Gloves (acid-resistant)

Appropriate Material neoprene

Material thickness = 0,35 mm

Breakthrough time > 480 min

Gloves (acid-resistant)

Appropriate Material butyl

Material thickness = 0,5 mm

Breakthrough time > 480 min

Eye protection

Tightly fitting safety glasses

Body protection

Acid-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/H₂O 100 %

Temperature 20 °C

Remarks strongly acidic

Value appr. 2,6

Concentration/H₂O 10 g/l

Temperature 20 °C

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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

Flammability (solid, gas)

Not applicable

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

Decomposition temperature

Remarks No decomposition if used as prescribed.

Viscosity

Remarks not determined

Oxidising properties

evaluation None known

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

Other information

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None known

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactions with alkalies. Reactions with various metals.

10.2. Chemical stability

Protect from extreme heat and cold.

10.3. Possibility of hazardous reactions

Protect from contamination.

10.4. Conditions to avoid

Keep at temperature not exceeding 30 °C. Do not store at temperatures below -5 °C.

Decomposition temperature

Remarks

No decomposition if used as prescribed.

10.5. Incompatible materials

Corrosive to metals. Incompatible with alkaline substances .

10.6. Hazardous decomposition products

Hazardous determin decomposition products: Hydrogen

Other information

When diluting, add acids to water, never the other way around. Corrosive to metals.

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

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Sensitization

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

Product is severely caustic.

Other information

Product specific toxicological data are not known.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

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**

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

Daphnia toxicity

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

Reference substance	2-Butoxyethanol	
CAS No.	111-76-2	
Species	<i>Daphnia magna</i>	
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	<i>Daphnia magna</i>	
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	<i>Desmodesmus subspicatus</i> (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

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General information

No data available

12.3. Bioaccumulative potential**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 52102

Dispose of as hazardous waste.

Disposal recommendations for packaging

EWC waste code 20 01 39 plastics

Uncontaminated packaging may be taken 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 I

Transport category 3

14.5. Environmental hazards

-

Tunnel restriction code E

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**Marine transport IMDG/GGVSee****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

-

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 MARPOL73/78 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

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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.
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
IMDG: International Maritime Code for Dangerous Goods
IATA: International Civil Aviation Organization
CAS: Chemical Abstracts Service
VOC: Volatile Organic Compound
INCI: International Nomenclature of Cosmetic Ingredients
ICAO: International Air Transport Association
NOEL: No observable effect level
NOEC: No observable effect concentration
LC: Lethal concentration
LC: Lethal concentration
DNEL: Derived no effect level
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
IMO: International Maritime Organization
PNEC: Predicted no effect concentration
EU: European Union
EC: European Community
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.

