

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

1.1 Product identifier

ECE-98 detergent DEK

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

1.2.1 Relevant uses

Detergent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

DEK GmbH
Elly-Heuss-Knapp-Platz 4
53844 Troisdorf / GERMANY
Phone +49-228-976 624 85

Homepage www.farbechtheit.info
E-mail info@farbechtheit.info

Address enquiries to

Technical information

info@farbechtheit.info

1.4 Emergency telephone number

Advisory body

+49 (0)228-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Eye Dam. 1: H318 Causes serious eye damage.
Skin Irrit. 2: H315 Causes skin irritation.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

DANGER

Contains:

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Hazard statements

H318 Causes serious eye damage.
H315 Causes skin irritation.

Precautionary statements

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 / doctor.

Cleaner, 648/2004/CE, contains:

5 - <15% polycarboxylates
5 - <15% non-ionic surfactants
5 - <15% anionic surfactant
15 - <30% Zeolites
< 5% soap

2.3 Other hazards

Environmental hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - < 15	Sodium carbonate
	CAS: 497-19-8, EINECS/ELINCS: 207-838-8, EU-INDEX: 011-005-00-2
	GHS/CLP: Eye Irrit. 2: H319
5 - < 10	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide
	EINECS/ELINCS: 932-051-8, Reg-No.: 01-2119565112-48-XXXX
	GHS/CLP: Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412
3 - < 10	Alkohole, C12-14, ethoxyliert (>5-12 EO)
	CAS: 68439-50-9, EINECS/ELINCS: 932-106-6
	GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412
1 - < 3	Silicic acid, sodium salt (MV >1,6-<2,6)
	CAS: 1344-09-8, EINECS/ELINCS: 215-687-4, Reg-No.: 01-2119448725-31-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315 - STOT SE 3: H335

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation

Seek medical advice immediately.
Ensure supply of fresh air.

Skin contact

When in contact with the skin, clean with soap and water.
In the event of symptoms seek medical treatment.

Eye contact

Seek medical advice immediately.
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Shield unaffected eye.

Ingestion

Consult a doctor immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Avoid dust formation.
Wear suitable protective equipment. For personal protection see SECTION 8.
Use breathing apparatus if exposed to dust.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Avoid raising dust.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid the formation and deposition of dust.
Provide vacuuming if dust raised.
Avoid contact with eyes and skin. Use personal protective equipment.

Take off contaminated clothing and wash before reuse.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Do not eat, drink, smoke or take drugs at work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

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

Do not store together with acids.

Keep container in a well-ventilated place.
Keep container tightly closed.
Keep in a cool place. Store in a dry place.
The product is hygroscopic.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational
exposure limits to be monitored (GB)

not applicable

DNEL

Substance
Silicic acid, sodium salt (MV >1,6-<2,6), CAS: 1344-09-8
Industrial, inhalative, Long-term - systemic effects, 5,61 mg/m ³ bw/d,
Industrial, dermal, Long-term - systemic effects, 1,59 mg/kg bw/d,
general population, oral, Long-term - systemic effects, 0,8 mg/kg bw/d,
general population, inhalative, Long-term - systemic effects, 1,38 mg/m ³ bw/d,
general population, dermal, Long-term - systemic effects, 0,8 mg/kg bw/d,
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide
Industrial, inhalative, Long-term - systemic effects, 12 mg/m ³ ,
Industrial, dermal, Long-term - systemic effects, 170 mg/kg,
general population, oral, Long-term - systemic effects, 0,85 mg/kg,
general population, dermal, Long-term - systemic effects, 85 mg/kg,
general population, inhalative, Long-term - systemic effects, 3 mg/m ³ ,

PNEC

Substance
Silicic acid, sodium salt (MV >1,6-<2,6), CAS: 1344-09-8
freshwater, 7,5 mg/l,
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide
soil, 35 mg/kg,
sediment (seawater), 8,1 mg/kg,
sediment (freshwater), 8,1 mg/kg,
sewage treatment plants (STP), 5,6 mg/l,
seawater, 0,0268 mg/l,
freshwater, 0,268 mg/l,

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Pay attention to dust limit value (ACGIH-2011: 10 mg/m ³ particle inhalable; 3 mg/m ³ particle respirable). Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,4 mm: Butyl rubber, >480 min (EN 374-1/-2/-3). In splash contact: > 0,4 mm: Butyl rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Alkali-resistant protective clothing (EN 340)
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin. Do not inhale dust.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter P2. (DIN EN 143)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	powder
Color	white
Odor	mild
Odour threshold	not applicable
pH-value	alkaline
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	No information available.
Bulk density [kg/m³]	No information available.
Solubility in water	soluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids.
Reactions with oxidizing agents.

10.4 Conditions to avoid

Contact with moisture.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Substance
Alkohole, C12-14, ethoxyliert (>5-12 EO), CAS: 68439-50-9
LD50, oral, Rat, > 300 - 2000 mg/kg bw,
Sodium carbonate, CAS: 497-19-8
LD50, oral, Rat, 4090 mg/kg (IUCLID),
Silicic acid, sodium salt (MV >1,6-<2,6), CAS: 1344-09-8
LD50, oral, Rat, > 2000 mg/kg,
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide
LD50, oral, Rat, 2000 - 5000 mg/kg bw (OECD 401),

Acute dermal toxicity

Substance
Alkohole, C12-14, ethoxyliert (>5-12 EO), CAS: 68439-50-9
LD50, dermal, Rat, > 2000 mg/kg bw,
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide
LD50, dermal, Rat, > 2000 mg/kg bw (OECD 402),

Acute inhalational toxicity

Substance
Sodium carbonate, CAS: 497-19-8
LC50, inhalative, Rat, 5750 mg/l 2 h (OECD 403),

Serious eye damage/irritation

Risk of serious damage to eyes.
Calculation method

Skin corrosion/irritation

Irritant
Calculation method

Respiratory or skin sensitisation

Does not contain a relevant substance that meets the classification criteria.

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure

Does not contain a relevant substance that meets the classification criteria.

Mutagenicity

Does not contain a relevant substance that meets the classification criteria.

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria.

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria.

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Alkohole, C12-14, ethoxyliert (>5-12 EO), CAS: 68439-50-9
LC50, (96h), Cyprinus carpio, > 1 - 10 mg/l (OECD 203),
EC50, (72h), Desmodesmus subspicatus, > 1 - 10 mg/l (OECD 201),
EC50, (48h), Daphnia magna, > 1 - 10 mg/l (OECD 202),
Sodium carbonate, CAS: 497-19-8
LC50, (96h), Lepomis macrochirus, 300 mg/l (IUCLID),
EC50, (48h), Daphnia magna, 265 mg/l (IUCLID),
Silicic acid, sodium salt (MV >1,6-<2,6), CAS: 1344-09-8
LC50, (96h), fish, > 200 mg/l,
Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide
LC50, (96h), Cyprinus carpio, > 1- 10 mg/l (OECD 203),
EC50, (72h), Desmodesmus subspicatus, > 10- 100 mg/l (OECD 201),
EC50, (48h), Daphnia magna, > 1- 10 mg/l (OECD 202),

12.2 Persistence and degradability

Behaviour in environment compartments

No information available.

Behaviour in sewage plant

The product can cause foaming in sewage treatment plants.

Biological degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.
Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
 Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 070608*
 200129*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
 Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
 Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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 or mixture

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (2010/75/CE) not applicable

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H335 May cause respiratory irritation.
H302 Harmful if swallowed.
H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

Modified position

SECTION 2 been added: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

SECTION 8 deleted: Respiratory protection in the case of dust formation.