

# KRONES colclean CD 2090

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 21/03/2019 Revision date: 21/03/2019 Version: 1.00

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

#### 1.1. Product identifier

Trade name : KRONES colclean CD 2090  
Type of product : Detergent

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Cleaning agent

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer/Supplier

KIC KRONES Internationale Cooperationsgesellschaft mbH  
Böhmerwaldstraße 5  
93073 Neutraubling  
T +49 9401 70-3020 - F +49 9401 70-3696  
[kic@kic-krones.com](mailto:kic@kic-krones.com) - [www.kic-krones.com](http://www.kic-krones.com)

##### Email competent person

sds@kft.de

#### 1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incidents  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning  
Hazard statements (CLP) : H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P302+P352 - IF ON SKIN: Wash with plenty of 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.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

PBT: not relevant – no registration required  
vPvB: not relevant – no registration required

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	(CAS-No.) 85586-07-8 (EC-No.) 287-809-4 (REACH-no) 01-2119489463-28-xxxx	5 - <10	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts	(EC-No.) 939-637-2 (REACH-no) 01-2119979095-26-xxxx	5 - <10	Skin Irrit. 2, H315 Eye Irrit. 2, H319

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	(CAS-No.) 85586-07-8 (EC-No.) 287-809-4 (REACH-no) 01-2119489463-28-xxxx	( 10 =<C < 20) Eye Irrit. 2, H319 ( 20 =<C < 100) Eye Dam. 1, H318
Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts	(EC-No.) 939-637-2 (REACH-no) 01-2119979095-26-xxxx	( 10 <C <= 20) Skin Irrit. 2, H315 ( 20 <C <= 100) Skin Irrit. 2, H315 ( 20 <C <= 100) Eye Irrit. 2, H319

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam, powder, carbon dioxide (CO <sub>2</sub> ), water spray. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Strong water jet.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Sulphur oxides. release of harmful/irritant gases/vapours.
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#### 5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spilled material may present a slipping hazard.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Wash away remainder with plenty of water.

Other information : Disposal must be done according to official regulations.

#### 6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Direction for use.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Keep away from food, drink and animal feeding stuffs. Handle in accordance with good industrial hygiene and safety procedures.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Product must only be kept in the original packaging. Store in a closed container.

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	4060 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	285 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	24 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	85 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	2440 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0.131 mg/l
PNEC aqua (marine water)	0.013 mg/l

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<b>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)</b>	
PNEC aqua (intermittent, freshwater)	0.036 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	4.61 mg/kg dwt
PNEC sediment (marine water)	0.461 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0.846 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	1.35 mg/l
<b>Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	165.44 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	233.36 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	2.21 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	69.05 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	99.36 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0.019 mg/l
PNEC aqua (marine water)	0.0019 mg/l
PNEC aqua (intermittent, freshwater)	0.19 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0.107 mg/kg dwt
PNEC sediment (marine water)	0.011 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0.01 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	5 mg/l

## 8.2. Exposure controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Hand protection:

Chemically resistant protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear. For example protection gloves made by KCL GmbH, D-36124 Eichenzell; email: vertrieb@kcl.de, with following specification (tested according to EN 16523-1, EN 16523-2, EN 374): 706 Lapren, 730 Camatril Velours

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Latex	6 (> 480 minutes)	-	No additional information available	EN ISO 374
Chemically resistant protective gloves	Nitrile rubber	6 (> 480 minutes)	-	No additional information available	EN ISO 374

### Eye protection:

Wear closed safety glasses. EN 166

### Skin and body protection:

Wear suitable protective clothing. EN 340. EN 13034. EN ISO 20345. Long sleeved protective clothing

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### Respiratory protection:

Not required for normal conditions of use. If the occupational exposure limit is exceeded: In case of insufficient ventilation, wear suitable respiratory equipment. A-P2. EN 143. Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust.

### Environmental exposure controls:

Avoid release to the environment.

### Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 6
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: Not determined
Boiling point	: 100 °C
Flash point	: Not determined
Auto-ignition temperature	: Not determined
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not determined
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.02 g/cm <sup>3</sup>
Solubility	: Water: Easily soluble
Log Pow	: Not determined
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not determined
Explosive properties	: Not determined.
Oxidising properties	: Not determined.
Explosive limits	: No data available

### 9.2. Other information

VOC content : < 1 % (2004/42/EG)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Do not mix with other chemicals.

### 10.6. Hazardous decomposition products

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Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

#### Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)

LD50 oral rat	500 - 2000 mg/kg (Test method EU B.1 (bis))
LD50 dermal rat	> 2000 mg/kg bodyweight ((OECD 402 method); Read-across)
Skin corrosion/irritation	: Causes skin irritation. pH: 6
Serious eye damage/irritation	: Causes serious eye irritation. pH: 6
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

### SECTION 12: Ecological information

#### 12.1. Toxicity

Acute aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)
Chronic aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)

#### Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)

LC50 fish 1	3.6 mg/l (96 h; Oncorhynchus mykiss; (OECD 203 method))
EC50 Daphnia 1	4.7 mg/l (48 h; Daphnia magna; EG-guideline EG/92/69/EWG)
ErC50 (algae)	> 20 mg/l (72 h; Desmodesmus subspicatus; Test method EU C.3)
NOEC chronic crustacea	0.14 mg/l (21 d; Daphnia magna; (OECD 202 method); Read-across)
NOEC chronic algae	0.6 mg/l (72 h; Desmodesmus subspicatus; Test method EU C.3)

#### 12.2. Persistence and degradability

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Persistence and degradability	The surfactant(s) contained in this preparation complies(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.
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#### Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)

Persistence and degradability	Readily biodegradable.
Biodegradation	90 - 100 % (28 d; (OECD 301D method))

#### Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts

Persistence and degradability	Readily biodegradable.
Biodegradation	77 % (28 d; (OECD 301B method))

#### 12.3. Bioaccumulative potential

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Log Pow	Not determined
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### Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts

Log Pow	-5 (20 °C; (OECD 107 method))
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#### 12.4. Mobility in soil

### Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts

Log Koc	1.308 (Quantitative structure-activity relationship (QSAR))
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#### 12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required

vPvB: not relevant – no registration required

#### Component

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (85586-07-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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Butanedioic acid, 2(or3)-sulfo-, 4-[2-[(1-oxo(C12-C18(even numbered) and C18 unsaturated)alkyl)amino]ethyl]esters, disodium salts ( )	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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#### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Disposal must be done according to official regulations. European waste catalogue. Do not dispose of with domestic waste. Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code	: 20 01 29* - detergents containing dangerous substances
HP Code	: HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

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### Overland transport

Not regulated

### Transport by sea

Not regulated

### Air transport

Not regulated

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

### 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

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	KRONES colclean CD 2090
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : < 1 % (2004/42/EG)

Other information, restriction and prohibition regulations : Regulation (EC) No. 648/2004 of 31 March 2004 on detergents.

Detergent Regulation : Labelling of contents:

Component	%
anionic surfactants	5-<15%
non-ionic surfactants	<5%
METHYLISOTHIAZOLINONE	
BENZISOTHIAZOLINONE	
perfumes	
LIMONENE	

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road



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ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : MSDS of the supplier. ECHA (European Chemicals Agency).

Department issuing data : KFT Chemieservice GmbH  
specification sheet: Im Leuschnerpark. 3 64347 Griesheim  
Postfach 1451 64345 Griesheim  
Germany

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500  
Safety Data Sheet Service: +49 6155 8981-522

Contact person : Dr. Barbara Ridder

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method

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KFT SDS EU 00

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*