

## **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## Klärungsreagenz für Molkereiprodukte

Revision date: 16.07.2024 Product code: 34184 Page 1 of 13

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

### 1.1. Product identifier

Klärungsreagenz für Molkereiprodukte

UFI: DVN1-X3E9-F003-4TEM

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

#### Use of the substance/mixture

Laboratory chemical

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de
Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

number: 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)

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Flam. Liq. 2; H225 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315

Eye Dam. 1; H318 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

### Regulation (EC) No 1272/2008

#### Hazard components for labelling

Alcohols, C12-14-secondary, ethoxylated

butanone

Signal word: Danger



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### Pictograms:







#### **Hazard statements**

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.
H302+H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.H336 May cause drowsiness or dizziness.

#### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing and 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.
P403+P235 Store in a well-ventilated place. Keep cool.

### 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### Relevant ingredients

CAS No	Chemical name	Chemical name				
	EC No	Index No	REACH No			
	Classification (Regulation (EC) No	1272/2008)	•			
84133-50-6	Alcohols, C12-14-secondary, ethox	rylated		40 - < 45 %		
	617-534-0					
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H332 H302 H315 H318					
78-93-3	butanone		30 - < 35 %			
	201-159-0	606-002-00-3	01-2119457290-43			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066				
1310-73-2	sodium hydroxide			< 1 %		
	215-185-5	011-002-00-6	01-2119457892-27			
	Met. Corr. 1, Skin Corr. 1A; H290 H314					

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	Limits, M-factors and ATE	
84133-50-6	617-534-0	Alcohols, C12-14-secondary, ethoxylated	40 - < 45 %
	inhalation: ATE mg/kg	= 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500	
1310-73-2	215-185-5	sodium hydroxide	< 1 %
	1	H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < H319: >= 0,5 - < 2	



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#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

No data available

#### After inhalation

Provide fresh air.

Call a physician immediately.

#### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

Irritant, Cough

Dyspnoea, Dizziness

May cause drowsiness or dizziness.

Narcotic effects, Inebriation

Vomiting, Gastrointestinal complaints

Repeated exposure may cause skin dryness or cracking.

Liver and kidney damage

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

No data available

### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

## Unsuitable extinguishing media

no restriction

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

Combustible liquid.

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

Beware of reignition.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Avoid contact with skin, eyes and clothes.

### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.



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#### **SECTION 6: Accidental release measures**

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

#### General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

### For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

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

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

### Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

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

### Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

### Further information on storage conditions

Keep container tightly closed and dry.

Protect against: Light

### 7.3. Specific end use(s)

Laboratory use Laboratory chemical

### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
78-93-3	Methyl ethyl ketone (MEK) (Butan-2-one)	200	600		TWA (8 h)	
		300	900		STEL (15 min)	
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	

### **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	Butan-2-one	70 µmol/L	Urine	Post shift

### **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
78-93-3	butanone					
Worker DNEL	, long-term	inhalation	systemic	600 mg/m <sup>3</sup>		
Worker DNEL	, long-term	dermal	systemic	1161 mg/kg bw/day		
Consumer DN	IEL, long-term	inhalation	systemic	106 mg/m³		
Consumer DN	IEL, long-term	dermal	systemic	412 mg/kg bw/day		
Consumer DN	IEL, long-term	oral	systemic	31 mg/kg bw/day		
1310-73-2	1310-73-2 sodium hydroxide					
Worker DNEL	, long-term	inhalation	local	1 mg/m³		
Consumer DN	IEL, long-term	inhalation	local	1 mg/m³		



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#### **PNEC values**

CAS No	Substance			
Environment	Environmental compartment			
78-93-3	butanone			
Freshwater		55,8 mg/l		
Freshwater (intermittent releases) 55,8 n		55,8 mg/l		
Marine wate	ſ	55,8 mg/l		
Freshwater sediment		284,74 mg/kg		
Marine sediment		284,7 mg/kg		
Secondary poisoning 1000		1000 mg/kg		
Micro-organisms in sewage treatment plants (STP)		709 mg/l		
Soil 22,5 mg/				

### 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

## **Hand protection**

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact: No data available

By short-term hand contact

Trade name/designation: KCL 897 Butoject®

Suitable material: 0,3 mm

Wearing time with occasional contact (splashes): > 240 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

## Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Thermal hazards

No data available

### **Environmental exposure controls**

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion



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### **SECTION 9: Physical and chemical properties**

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

Physical state: Liquid

Colour:

Odour: like: Solvent
Odour threshold: No data available

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

not applicable Flammability: Lower explosion limits: No data available Upper explosion limits: No data available <21 °C Flash point: No data available Auto-ignition temperature: No data available Decomposition temperature: Viscosity / kinematic: No data available Water solubility: No data available

Solubility in other solvents

No data available

Dissolution rate: No data available Partition coefficient n-octanol/water: No data available Dispersion stability: No data available Vapour pressure: No data available Vapour pressure: No data available Relative density: No data available Bulk density: No data available No data available Relative vapour density: Particle characteristics: No data available

### 9.2. Other information

## Information with regard to physical hazard classes

Explosive properties

Vapours can form explosive mixtures with air.

Sustaining combustion:

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

Solvent separation test:

No data available
Solvent content:

No data available
Solid content:

No data available
Sublimation point:

No data available
Softening point:

No data available
Pour point:

No data available
No data available

No data available:

Viscosity / dynamic: No data available Flow time: No data available

**Further Information** 



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No data available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Vapours can form explosive mixtures with air.

### 10.2. Chemical stability

Protect against: Light

## 10.3. Possibility of hazardous reactions

Oxidising agent

Hydrogen peroxide

Nitric acid

Sulphuric acid, concentrated

### 10.4. Conditions to avoid

Heat

Light

### 10.5. Incompatible materials

plastic

### 10.6. Hazardous decomposition products

No data available

### **Further information**

No data available

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

### **Acute toxicity**

Harmful if swallowed.

Harmful if inhaled.

### **ATEmix** calculated

ATE (oral) 1240,9 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 3,7230 mg/l

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
84133-50-6	Alcohols, C12-14-second	Alcohols, C12-14-secondary, ethoxylated						
	oral	ATE 5	500					
	inhalation vapour	ATE ^	11 mg/l					
	inhalation dust/mist	ATE ^	1,5 mg/l					

## Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

#### Sensitising effects

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

### Carcinogenic/mutagenic/toxic effects for reproduction



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Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

### STOT-single exposure

May cause drowsiness or dizziness. (butanone)

### STOT-repeated exposure

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

#### **Aspiration hazard**

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

### Information on likely routes of exposure

There are no data available on the mixture itself.

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### **Practical experience**

There are no data available on the mixture itself.

### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

There are no data available on the mixture itself.

#### Other information

There are no data available on the mixture itself.

### **Further information**

Irritant, Cough

Dyspnoea, Dizziness

May cause drowsiness or dizziness.

Narcotic effects, Inebriation

Vomiting, Gastrointestinal complaints

Liver and kidney damage

### **SECTION 12: Ecological information**

### 12.1. Toxicity

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

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
78-93-3	butanone							
	Acute fish toxicity	LC50 mg/l	2993	96 h	Pimephales promelas	Study report (1998)	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	2029	96 h	Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201	
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202	
1310-73-2	sodium hydroxide							
	Acute crustacea toxicity	EC50 mg/l	40,4	48 h	Ceriodaphnia sp.	Ecotoxicology and Environmental Safety,4	other: acute 48-h immobilization test ac	

### 12.2. Persistence and degradability

There are no data available on the mixture itself.

### 12.3. Bioaccumulative potential



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There are no data available on the mixture itself.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-93-3	butanone	0,3

### 12.4. Mobility in soil

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

Do not empty into drains.

#### **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not allow to enter into surface water or drains.

### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (butanone, sodium

hydroxide)

14.3. Transport hazard class(es): 3 14.4. Packing group: Ш Hazard label: 3+8 Classification code: FC Special Provisions: 274 Limited quantity: 1 I Excepted quantity: F2 Transport category: 2 Hazard No: 338 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (butanone, sodium

hydroxide)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8Classification code:FC



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Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (butanone, sodium

hydroxide)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8Special Provisions:274Limited quantity:1 LExcepted quantity:E2EmS:F-E, S-C

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (butanone, sodium

hydroxide)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8Special Provisions:A3Limited quantity Passenger:0.5 LPassenger LQ:Y340Excepted quantity:E2

IATA-packing instructions - Passenger:352IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:363IATA-max. quantity - Cargo:5 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquid.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## **SECTION 15: Regulatory information**

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

**EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to Directive 2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 3 - highly hazardous to water

### **SECTION 16: Other information**

### Changes



according to Regulation (EC) No 1907/2006

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This data sheet contains changes from the previous version in section(s): 1,2,3,4,7,8,9,10,11,12,13,14,15.

### Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
STOT SE 3; H336	Calculation method

## Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.
H302 Harmful if swallowed

H302+H332 Harmful if swallowed or if inhaled.

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.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users





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(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)