

according to Regulation (EC) No 1907/2006

Cyclohexanone > 99 % for synthesis

Revision date: 01.05.2023

Product code: 24585

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

1.1. Product identifier

Cyclohexanone > 99 % for synthesis

REACH Registration Number:	01-2119453616-35-XXXX
CAS No:	108-94-1
Index No:	606-010-00-7
EC No:	203-631-1

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

Use of the substance/mixture

Laboratory chemicals 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).

.3. Details of the supplier of the safety data shee	t
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1.3. Details of the supplier of the sa	fety data sheet	
Company name:	AnalytiChem GmbH	
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 Exposure, or Accident Call CHEMTREC	
number:	1-800-424-9300 Outside USA and Cana accepted)	

Further Information

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Danger



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Hazard statements

H226	Flammable liquid and vapour.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Store in a well-ventilated place. Keep cool.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	C6H10O
Molecular weight:	98,14 g/mol

Hazardous components

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
Classification (Regulation (EC) No 1272/2008)				
108-94-1	3-94-1 cyclohexanone			100 %
	203-631-1 606-010-00-7 01-2119453616-35-XXXX			
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H226 H332 H312 H302 H315 H318 H335			

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. Limits, M-factors and ATE			
108-94-1	203-631-1	cyclohexanone	100 %
inhalation: LC50 = > 6,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 1620 mg/kg			

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



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After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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

Risk of serious damage to eyes. Irritant corrosive Dizziness Anaesthetic state Vomiting Gastrointestinal complaints Headache Corneal opacity. Cough Dyspnoea Pulmonary oedema

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

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Foam Extinguishing powder

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting. Beware of reignition.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.



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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.

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 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 vapour/aerosol. Provide adequate ventilation.



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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.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

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

When using do not eat or drink.

Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Store in a cool dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Further information on storage conditions

Protect from sunlight. minimum storage temperature +5°C maximum storage temperature +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
108-94-1	Cyclohexanone	10	40.8		TWA (8 h)	
		20	81.6		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-94-1	Cyclohexanone	Cyclohexanol (metabolite)	8 mg/L	Urine	End of shift



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
108-94-1	cyclohexanone			
Worker DNEL	, long-term	inhalation	systemic	40 mg/m ³
Worker DNEL	, acute	inhalation	systemic	80 mg/m³
Worker DNEL	, long-term	inhalation	local	40 mg/m ³
Worker DNEL	, acute	inhalation	local	80 mg/m³
Worker DNEL	, long-term	dermal	systemic	4 mg/kg bw/day
Worker DNEL	, acute	dermal	systemic	4 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	10 mg/m ³
Consumer DN	EL, acute	inhalation	systemic	20 mg/m ³
Consumer DN	IEL, long-term	inhalation	local	20 mg/m ³
Consumer DN	EL, acute	inhalation	local	40 mg/m ³
Consumer DN	IEL, long-term	dermal	systemic	1 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	1 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	1,5 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	1,5 mg/kg bw/day

PNEC values

CAS No	Substance		
Environment	Environmental compartment Value		
108-94-1	cyclohexanone		
Freshwater		0,033 mg/l	
Freshwater (intermittent releases)	0,329 mg/l	
Marine water 0,003 mg/l		0,003 mg/l	
Freshwater sediment 0,249 mg/kg			
Marine sedir	nent	0,025 mg/kg	
Micro-organi	sms in sewage treatment plants (STP)	10 mg/l	
Soil		0,03 mg/kg	

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

goggles Face protection umbrella

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.



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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 Trade name/designation: KCL 898 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 898 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,7 mm Wearing time with occasional contact (splashes): > 480 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

Wear fire resistant or flame retardant clothing. Take off immediately all contaminated clothing and wash it before reuse. Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands and face before breaks and after work and take a shower if necessary.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: A

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	clear	
Odour:	stinging	
Odour threshold:	No data available	
Melting point/freezing point:		-31 °C
Boiling point or initial boiling point and		155 °C
boiling range:		
Flammability:		No data available
Lower explosion limits:		1,1 vol. %
Upper explosion limits:		9,4 vol. %
Flash point:		43 °C
Auto-ignition temperature:		No data available
Decomposition temperature:		430 °C
pH-Value (at 20 °C):		~7 (70 g/l)
Viscosity / kinematic:		No data available
Water solubility:		90 g/L
(at 20 °C)		
Solubility in other solvents		
No data available		



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Revision date: 01.05.2023 Product code Dissolution rate: Partition coefficient n-octanol/water: Dispersion stability: Vapour pressure: (at 20 °C) Vapour pressure: (at 50 °C) Density: Relative density: Bulk density: Bulk density: Relative vapour density: 9.2. Other information Information with regard to physical hazard classes	e: 24585 No data available No data available No data available 4,5 hPa 24 hPa 0,95 g/cm³ No data available No data available No data available	Page 8 of 12
Partition coefficient n-octanol/water: Dispersion stability: Vapour pressure: (at 20 °C) Vapour pressure: (at 50 °C) Density: Relative density: Bulk density: Relative vapour density: 9.2. Other information	No data available No data available 4,5 hPa 24 hPa 0,95 g/cm ³ No data available No data available	
Dispersion stability: Vapour pressure: (at 20 °C) Vapour pressure: (at 50 °C) Density: Relative density: Bulk density: Relative vapour density: 9.2. Other information	No data available 4,5 hPa 24 hPa 0,95 g/cm³ No data available No data available	
Vapour pressure: (at 20 °C) Vapour pressure: (at 50 °C) Density: Relative density: Bulk density: Relative vapour density: 9.2. Other information	4,5 hPa 24 hPa 0,95 g/cm³ No data available No data available	
(at 20 °C) Vapour pressure: (at 50 °C) Density: Relative density: Bulk density: Relative vapour density: 9.2. Other information	24 hPa 0,95 g/cm³ No data available No data available	
Vapour pressure: (at 50 °C) Density: Relative density: Bulk density: Relative vapour density: 9.2. Other information	0,95 g/cm³ No data available No data available	
(at 50 °C) Density: Relative density: Bulk density: Relative vapour density: 9.2. Other information	0,95 g/cm³ No data available No data available	
Density: Relative density: Bulk density: Relative vapour density: 0.2. Other information	No data available No data available	
Relative density: Bulk density: Relative vapour density: 0.2. Other information	No data available No data available	
Bulk density: Relative vapour density: 0.2. Other information	No data available	
Relative vapour density: 0.2. Other information		
0.2. Other information	No data available	
Information with regard to physical hazard classes		
Explosive properties		
In case of warming:		
Vapours are heavier than air, spread along floors and form explo		
Sustaining combustion:	Sustaining combustion	
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	100%	
Solid content:	No data available	
Sublimation point:	No data available	
Softening point:	No data available	
Pour point:	No data available	
	No data available	
Viscosity / dynamic: (at 25 °C)	2,5 mPa·s	
Flow time:	No data available	
Further Information		
No data available		
SECTION 10: Stability and reactivity		

In case of warming:

Vapours may form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent Nitric acid sulphuric acid Hydrochloric acid Hydrogen peroxide

10.4. Conditions to avoid

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



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10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

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

No data available

Acute toxicity

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

CAS No Chemical name

0,10,110						
	Exposure route	Dose		Species	Source	Method
108-94-1	cyclohexanone					
	oral	LD50 mg/kg	1620	Rat	American Ind. Hyg. Ass. J. 30, 470 - 47	
	dermal	ATE mg/kg	1100			
	inhalation (4 h) vapour	LC50 mg/l	> 6,2	Rat	Study report (1979)) BASF-internal standards; estimation of t
	inhalation dust/mist	ATE	1,5 mg/l			

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Has degreasing effect on the skin.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (cyclohexanone)

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

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests No data available

Practical experience No data available



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11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

Observe risk of aspiration if vomiting occurs. Liver and kidney damage

Further information

Risk of serious damage to eyes. Irritant corrosive Dizziness Anaesthetic state Vomiting Gastrointestinal complaints Headache Corneal opacity. Cough Dyspnoea Pulmonary oedema

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
108-94-1	cyclohexanone						
	Acute fish toxicity	LC50 732 mg/l	527 -	96 h	Pimephales promelas	Center for Lake Superior Environmental S	Test method of the U.S. EPA Committee on
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	REACh Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202
	Acute bacteria toxicity	(EC50 mg/l)	> 1000	0,5 h	activated sludge, domestic	J WPCF 60(10): 1850-1856. (1988)	OECD Guideline 209

12.2. Persistence and degradability

90 - 100 %; 28 d; aerob

OECD 301F

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-94-1	cyclohexanone	0,86

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.



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12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms. No data available

12.7. Other adverse effects

Avoid release to the environment.

Further information

Do not allow to enter into surface water or drains.

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 empty into drains.

Contaminated packaging

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

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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1915
14.2. UN proper shipping name:	CYCLOHEXANONE
14.3. Transport hazard class(es):	3
14.4. Packing group:	
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1915
14.2. UN proper shipping name:	CYCLOHEXANONE
14.3. Transport hazard class(es):	3
14.4. Packing group:	111
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1915
14.2. UN proper shipping name:	CYCLOHEXANONE
14.3. Transport hazard class(es):	3
14.4. Packing group:	
Hazard label:	3
Special Provisions:	-
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-D



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Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 1915	
14.2. UN proper shipping name:	CYCLOHEXANONE	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	u U	
Hazard label:	3	
Limited quantity Passenger:	3 10 L	
Passenger LQ:	Y344	
Excepted quantity:	F1	
IATA-packing instructions - Passenger:	355	
IATA-max. quantity - Passenger:	60 L	
IATA-packing instructions - Cargo:	366	
IATA-max. quantity - Cargo:	220 L	
ATA-max. quantity - Cargo.	220 L	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental requ	ulations/legislation specific for the substance or mi	xture

EU regulatory information

Restrictions on use (REACH, annex XVII) Entry 3, Entry 40 Information according to 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):	1 - slightly hazardous to water

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,15.

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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.