Safety data sheet

according to REACH Regulation
according to regulation (EC) No. 1907/2006; 2015/830;
2020/878

Coolant ME-KM 21 concentrate

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

1.1. Product identifier

Coolant ME-KM 21 concentrate

UFI: SM89-R012-500V-T3XP

1.2. Relevant identified Uses of fabric or Mixture and Uses, from those discouraged becomes

use of material/material Mixture

Coolant
Industrial Uses

Uses, from those discouraged becomes

It lay no information before.

1.3. details for the Suppliers, the the Safety data sheet provides

Company name:	Merkle Schweissanalgen-Technik GmbH	
Street:	Industriestraße 3	
Location:	D-89359 Koetz	
Phone:	+49 8221 915-0	Fax: +49 8221 915-40
E-mail: Contact	info@merkle.de	
person:	Headquarters	Phone: +49 8221 915-0
Email:	info@merkle.de	
Respondent Area:	+49(0)8221 915-0 (7-18 Clock)	

1.4. Emergency number: +49(0) 551 - 1 92 40 (GIZ North, 24 hours)

More

Declarations

No Data available

SECTION 2: Potential hazards

2.1. classification of fabric or Mixture

regulation (EC) No. 1272/2008

Acute Tox. 4; H302
STOT RE 2; H373

text the Hazard warnings: please refer SECTION 16.

2.2. Label elements regulation

(EC) No. 1272/2008

Hazard determining Components to Labeling

Ethanediol (see. Glycol)

Signal word: Attention

Pictograms:

Hazard warnings

H302	Harmful at Swallow.
H373	Can the organs (kidneys) damage at longer or repeated exposure.

safety instructions

P260	Dust/fume/gas/mist/vapours/spray not breathe in.
P264	After use hands thorough wash.
P270	At use not eat, drink or smoke.

P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse out mouth.
P501	Dispose of contents/container to a suitable recycling or disposal facility.

2.3. Other dangers

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

Annex XIII. Vapors may form explosive mixtures with air.

This product does not contain any substance with endocrine disrupting properties towards humans, as no ingredient fulfills the criteria.
This product does not contain any substance with endocrine disrupting properties towards non-target organisms, as no ingredient fulfills the criteria.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization

Ingredient:
Ethanediol (cf. glycol)
Water,
Inhibitor

Hazardous ingredients

CAS No.	Substance name			Share
	EC no.	Index no.	REACH-No.	
	Classification (Regulation (EC) No 1272/2008)			
107-21-1	Ethanediol (cf. glycol)			60 - < 65 %
	203-473-3	603-027-00-1	01-2119456816-28	
	Acute Tox. 4, STOT RE 2; H302 H373			

Wording of H- and EUH-phrases: see section 16.

Specific concentration limits, M-factors and ATE

CAS No.	EC no.	Substance name	Share
	Specific concentration limits, M-factors and ATE		
107-21-1	203-473-3	Ethanediol (cf. glycol)	60 - < 65 %
	dermal: LD50 = > 3500 mg/kg; oral: ATE = 500 mg/kg		

Further information

No data available

SECTION 4: First aid measures

4.1. Description of first aid measures General information

In case of accident or if you feel unwell, seek medical advice immediately (if possible, show operating instructions or safety data sheet).
Never give anything by mouth to an unconscious person or if convulsions occur.

After inhalation

Move the person to fresh air and ensure unobstructed breathing.
If unconscious and not breathing, place in recovery position and seek medical advice. If breathing is difficult or stopped, give artificial respiration.

After skin contact

In case of contact with skin, wash off immediately with plenty of soap and water.
Remove soiled, soaked clothing immediately. If skin irritation occurs, consult a doctor.

Wash contaminated clothing before wearing it again.

After eye contact

Immediately rinse carefully and thoroughly with eye wash or water. (10-15 min)
Remove any contact lenses if possible. Continue rinsing. If eye irritation occurs, consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with plenty of water (only if the person is conscious) and get medical help immediately. Give plenty of water to drink in small sips (dilution effect). Do not induce vomiting. If vomiting occurs, be aware of the risk of aspiration.

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

After ingestion:
Damages the kidneys if swallowed.

4.3. Information on immediate medical assistance or special treatment

Elementary aid, decontamination, symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1. Extinguishing agents

Suitable extinguishing

agents

Dry extinguishing agent, alcohol-resistant foam, carbon dioxide (CO2), water spray jet

Unsuitable extinguishing agents

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire, the following can be produced Carbon monoxide, carbon dioxide (CO2), nitrogen oxides (NOx)
Vapors are heavier than air, spread along the floor and form explosive mixtures with air. Closed containers can burst if pressure and temperature increase

5.3. Instructions for firefighting

Special protective equipment for firefighting Protective clothing. Full protective suit In case of fire: Wear self-contained breathing apparatus.

Additional notes

Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways. Dispose of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General information

See protective measures under points 7 and 8. Wear personal protective equipment (see section 8).
Ensure adequate ventilation. Do not inhale mist/vapor/aerosol. Avoid contact with eyes and skin.
Remove all sources of ignition.

Staff not trained for emergencies

Keep unprotected persons away.

Eliminate the leak if it can be done safely. keep away from the leak in the opposite direction to the wind.

Emergency services

Clear the surrounding area.
Please note: Emergency plans
Use a water spray to minimize vapour formation and to knock down any vapours formed.

6.2. Environmental protection measures

Do not allow to enter drains or waterways.

Do not allow to enter the subsoil/soil.
Shafts and ducts must be protected against the penetration of the product.
In case of gas leakage or ingress into water, soil or sewage system, inform the responsible authorities.

6.3. Methods and material for retention and cleaning For retention

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder).
Collect in suitable, closed containers and take to disposal. Treat the collected material in accordance with the disposal section.

For cleaning

Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

Further information

Provide fresh air.

6.4. Reference to other sections

See protective measures under points 7 and 8. Disposal:
see section 13

SECTION 7: Handling and storage

7.1. Protective measures for safe handling

Information on safe handling

Wear personal protective equipment (see section 8).
Do not inhale gas/vapor/aerosol. Avoid: Aerosol generation/formation Wear respiratory protection if ventilation is inadequate.
Keep container tightly closed.
Avoid contact with eyes and skin.
Avoid release into the environment. Clean up spills immediately.

Notes on fire and explosion protection

Keep away from heat sources (e.g. hot surfaces), sparks and open flames. Keep away from sources of ignition - No smoking.
Take measures against electrostatic charges.

Information on general hygiene measures in the workplace

Minimum standards for protective measures when handling substances are listed in TRGS 500. Work in well-ventilated areas or with a breathing filter.
Only wear suitable, comfortable and clean protective clothing. Wash hands before breaks and at the end of work.
Take off contaminated clothing and wash it before wearing it again. Do not eat, drink, smoke or sniff at the workplace.
Sufficient washing facilities are available
eyebrows are provided and their location conspicuously marked

Further information on handling

Do not store containers without labels. Follow the instructions for use.

7.2. Conditions for safe storage, taking into account incompatibilities

Requirements for storage rooms and containers

Keep container tightly closed and store in a cool, well-ventilated place. Keep/store only in the original container.
Protect from heat.
Unsuitable material for containers/systems: aluminum; zinc

Storage instructions

Keep away from food, drink and animal feed.
Keep away from: NaOH; Aluminum; Peroxides; Oxidizing agents, strong; Chlorates; Sulfuric acid

Further information on storage conditions

Keep away from: Frost, heat, moisture

Storage class according to TRGS 510: 12 (Non-flammable liquids that cannot be assigned to any of the aforementioned LGK)

7.3. Specific end uses

There is no information available.

SECTION 8: Exposure controls/personal protective equipment

8.1. Parameters to be monitored

Occupational exposure limits

CAS No.	Designation	ppm	mg/m³	F/m³	Peak limiting factor	Kind
107-21-1	Ethanediol	10	26		2(I)	TRGS 900

DNEL/DMEL values

CAS No.	Designation		
DNEL Type		Exposure path	Effect	Value
107-21-1	Ethanediol (cf. glycol)		
Workers DNEL, long-term		inhalative	local	35 mg/m³
Workers DNEL, long-term		dermal	systemic	106 mg/kg bw/d
Consumer DNEL, long-term		inhalative	local	7 mg/m³
Consumer DNEL, long-term		dermal	systemic	53 mg/kg bw/d
,				

PNEC values

CAS No.	Designation	
Environmental compartment		Value
107-21-1	Ethanediol (cf. glycol)	
Fresh water		10 mg/l
Fresh water (intermittent release)		10 mg/l
Seawater		1 mg/l
Freshwater sediment		20.9 mg/kg
Marine sediment		3.7 mg/kg
Microorganisms in wastewater treatment plants		199.5 mg/l
Floor		1.53 mg/kg

Additional information on limit values

Ethanediol (cf. glycol) H: skin-resorptive

8.2. Exposure controls and monitoring

Suitable technical control equipment

Ensure adequate ventilation and localized extraction at critical points. Ground the container and the system to be filled.

Only carry out filling processes at stations with an extraction system.

Individual protective measures, for example personal protective equipment

Eye/face protection

Suitable eye protection: DIN EN 166 frame goggles with side protection,

Wicker glasses

Hand protection

Tested protective gloves must be worn: EN ISO 374
NBR (nitrile rubber) NR (natural rubber, natural latex) Butyl rubber
Thickness of glove material >= 0.4 mm (NBR (nitrile rubber))
Breakthrough times and swelling properties of the material must be taken into account.
It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer.
Wearing time with occasional contact (splashes): max. 480 min. (NBR (nitrile rubber))
Wearing time with permanent contact 240 - 480 min (NBR (nitrile rubber))
The wearing time limits according to the manufacturer's instructions must be observed.
Wear cotton undergloves if possible. Replace when worn!
Use oily skin care products after cleansing.

Body protection

Use of protective clothing (liquid-tight; chemical protection suit) Wear antistatic shoes and work clothing.

Respiratory protection

Respiratory protection is required in case of: Exceeding limit values, vapor/aerosol or mist formation
If technical extraction or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Suitable breathing apparatus: Full/half/quarter mask (DIN EN 136/140) type A-P2
The wearing time limits according to GefStoffV in conjunction with the rules for the use of respiratory protective devices (BGR 190) must be observed.

Thermal hazards

No data available

Limiting and monitoring environmental exposure

Provide a retention tank, e.g. floor pan without drain.

SECTION 9: Physical and chemical properties

9.1. Information on the basic physical and chemical properties

Physical state:	Liquid
Color:	colorless
Odor:	Characteristic
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	~100 °C
Flammability:	There is no information available.
Lower explosion limit:	3.2* Vol.-%
Upper explosion limit:	43* % by volume
Flash point:	No data available
Ignition temperature:	>400 °C
Decomposition temperature:	No data available
pH value:	9,0-10,0
Solubility in water:	completely miscible
Solubility in other solvents	No information available.
Partition coefficient n-octanol/water:	No data available
Vapor pressure: (at 20 °C)	~23 hPa
Density:	~1.06 g/cm³
Bulk density:	No data available

9.2. Other information

Information on physical hazard classes

Explosion hazards
not explosive.
Vapors may form explosive mixtures with air.

Flammability:	No data available
Auto-ignition temperature	
Solid:	No data available No
Gas:	data available

Oxidizing properties
There is no information available.

Other safety-related parameters

Evaporation rate:	No data available
Solvent separation test:	No data available
Solvent content:	60-<65 %
Sublimation temperature:	No data available
Softening point:	No data available
Pour point:	No data available
Solidification point:	~ -50 °C
Dynamic viscosity:	No data available

Further information

*Ethanediol (cf. glycol)

Ice flake point: ~ -40 °C
Cold protection: ~ -45 °C
Conductivity: 5-20 µS/cm

SECTION 10: Stability and reactivity

10.1. Reactivity

There is no information available.

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with: Oxidizing agent, strong; Peroxides; Chlorates -->Formation of: Gases/vapors, flammable
Exothermic reaction with: Sulphuric acid; NaOH

Vapors may form explosive mixtures with air.

10.4. Conditions to avoid

Keep away from heat sources (e.g. hot surfaces), sparks and naked flames.

10.5. Incompatible materials

NaOH,
Aluminum
peroxides
Oxidizing agent, strong
chlorates Sulphuric
acid

10.6. Hazardous decomposition products

Reference to other sections: 5

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes according to Regulation (EC) No. 1272/2008 Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 833.3 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapor) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No.	Designation				
	Exposure path	Dose	Species	Source	Method
107-21-1	Ethanediol (cf. glycol)				
	oral	ATE 500 mg/kg			
	dermal	LD50 > 3500 mg/kg	Mouse	Fundamental and Applied Toxicology 27: 1	LD50 derived from developmental toxicity

Irritant and corrosive effect

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

Sensitizing effects

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

Carcinogenic, mutagenic and reprotoxic effects

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

Specific target organ toxicity at single exposure

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

Specific target organ toxicity with repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Ethanediol (cf. glycol))

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

No data available

General remarks

Calculation method.

SECTION 12: Environmental information

12.1. Toxicity

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

CAS No.	Designation					
	Aquatic toxicity	Dose	[h] | [d]	Species	Source	Method
107-21-1	Ethanediol (cf. glycol)					
	Acute fish toxicity	LC50 > 72860 mg/l	96 h	Pimephales promelas	Environ. Toxicology and Chemistry, Vol.	EPO 600/4-90/027. U.S. Environmental Pro
	Acute algal toxicity	ErC50 6500 - 13000 mg/l	96 h	Pseudokirchneriella subcapitata	Study report (1982)	other: EPA 600/9-78-018, 1978
	Acute crustacean toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202
	Fish toxicity	NOEC 15380 mg/l	7 d	Pimephales promelas	Environ. Toxicology and Chemistry, Vol.	other: EPA 600/4-89/001. U.S. Environmen
	Algal toxicity	NOEC > 100 mg/l	8 d	Scenedesmus quadricauda	REACh Registration Dossier	OECD Guideline 201
	Crustacean toxicity	NOEC 7500 - 15000 mg/l	21 d	Daphnia magna	REACh Registration Dossier	other: ASTM

12.2. Persistence and degradability

No further relevant information available.

CAS No.	Designation			
	Method	Value	d	Source
	Rating			
107-21-1	Ethanediol (cf. glycol)			
	OECD 301A	90-100%	10	

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No.	Designation	Log Pow
107-21-1	Ethanediol (cf. glycol)	-1,36

12.4. Mobility in soil

There is no information available.

12.5. Results of the PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain any substance with endocrine disrupting properties towards non-target organisms as no ingredient fulfills the criteria.

12.7. Other harmful effects

There is no information available.

Further information

Avoid release to the environment. slightly hazardous to water

SECTION 13: Disposal instructions

13.1. Waste treatment processes

Recommendations for disposal

Disposal in accordance with official regulations. The assignment of waste code numbers/waste designations must be carried out in accordance with EAKV on an industry and process-specific basis.
Hazardous waste according to Directive 2008/98/EC (Waste Framework Directive).

Waste code - unused product

140603 WASTES FROM ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); wastes from organic solvents, refrigerants and foam and aerosol propellants; other solvents and solvent mixtures; hazardous waste

Waste code - uncleaned packaging

150110 PACKAGING WASTE, ABSORBENT MATERIALS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING; packaging (including separately collected municipal packaging waste); packaging containing residues of hazardous substances or contaminated by hazardous substances; hazardous waste

Disposal of uncleaned packaging and recommended cleaning agents Completely emptied packaging can be recycled. Dispose of in accordance with official regulations.

SECTION 14: Transport information

Land transportation (ADR/RID)

14.1. UN number or ID number:	No dangerous goods in the sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous goods in the sense of these transport regulations.
14.3. Transport hazard classes:	No dangerous goods in the sense of these transport regulations.
14.4. Packaging group:	No dangerous goods according to these transport regulations.

Inland waterway transportation (ADN)

14.1. UN number or ID number:	No dangerous goods in the sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous goods in the sense of these transport regulations.
14.3. Transport hazard classes:	No dangerous goods in the sense of these transport regulations.
14.4. Packaging group:	No dangerous goods according to these transport regulations.

Sea transportation (IMDG)

14.1. UN number or ID number:	No dangerous goods in the sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous goods in the sense of these transport regulations.
14.3. Transport hazard classes:	No dangerous goods in the sense of these transport regulations.
14.4. Packaging group:	No dangerous goods according to these transport regulations.

Air transportation (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous goods in the sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous goods in the sense of these transport regulations.
14.3. Transport hazard classes:	No dangerous goods in the sense of these transport regulations.
14.4. Packaging group:	No dangerous goods according to these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for the user

No dangerous goods in the sense of these transport regulations.

14.7. Transport of bulk goods by sea in accordance with IMO instruments

No dangerous goods in the sense of these transport regulations.

SECTION 15: Legislation

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

EU regulations

Restrictions on use (REACH, Annex XVII): Entry 3, Entry 75

Information on the SEVESO III Directive 2012/18/EU: Not subject to the SEVESO III Directive

Additional notes

Classification according to Regulation (EC) No. 1272/2008 [CLP] Safety data sheet according to Regulation (EC) No. 1907/2006 (REACH)
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
COUNCIL DIRECTIVE 94/33/EC of 22 . June 1994 on the protection of young people at work
DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of June 8, 2011 on the Restriction of the use of certain hazardous substances in electrical and electronic equipment
Directive (EU) 2018/851 of the European Parliament and of the Council of May 30, 2018 amending Directive 2008/98/EC on waste
Directive 2008/98/EC of the European Parliament and of the Council of November 19, 2008 on waste and repealing certain Directives

National regulations

Employment restriction: Observe employment restrictions for young people (§ 22 JArbSchG).
Does not fall under TA Luft

Technical Guidance Air I:
Proportion: 1 - slightly hazardous to water

Water hazard class: Status: Classification of mixtures according to Annex 1, No. 5 AwSV

Additional notes

Germany
Law on the implementation of occupational health and safety measures to improve the safety and health protection of employees at work (Occupational Health and Safety Act - ArbSchG)
Ordinance on Workplaces (Workplace Ordinance - ArbStättV) with associated Technical Rules for Workplaces (ASR)
Chemicals legislation Hazardous Substances Ordinance (GefStoffV)
Water Resources Act (WHG) Ordinance on Installations for the Handling of Substances Hazardous to Water (AwSV)

DGUV regulations, DGUV rules, leaflets and other publications of the accident insurance institutions:
Leaflet A 010: Operating instructions for activities involving hazardous substances (DGUV Information 213-051) Leaflet A 016: Risk assessment - seven steps to the goal
Leaflet A 017: Risk assessment - Hazard catalog Leaflet A 023: Hand and skin protection
Leaflet A 026: Instruction - Hazard-oriented action aid Leaflet M 050: Activities with hazardous substances (DGUV Information 213-079)
Leaflet M 053: Occupational health and safety measures for activities involving hazardous substances (DGUV Information 213-080)

TRGS 201, TRGS 220, TRGS 400 ff., TRGS 500, TRGS 509, TRGS 510, TRGS 555, TRGS 600, TRGS 800, TRGS 900

The product does not contain any hazardous ingredients according to EU Directive 2011/65/EU.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the following substances in this mixture: Ethanediol (cf. glycol)

SECTION 16: Other information

Changes

This data sheet contains changes to the previous version in section(s): 1.15.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:Règlement international conernat le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CLP: Classification, labeling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonized System of Classification, Labelling and Packaging of Chemicals UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
Acute Tox: Acute toxicity
STOT RE: Specific target organ toxicity (repeated exposure)

Important literature references and data sources

GESTIS

Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
STOT RE 2; H373	Calculation method

Wording of H and EUH phrases (number and full text)

H302 Harmful if swallowed.
H373 May cause damage to organs (kidneys) through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure.

Further information

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The recipient of our products is responsible for observing existing laws and regulations.

(The data of the relevant components were taken from the latest safety data sheet of the upstream supplier).