



1 Identification

- **Product identifier**
- **Trade name:** Okapox Royal Komp. B
- **Application of the substance / the mixture** Hardening agent/ Curing agent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** Kiesel Bauchemie GmbH & Co. KG
Wolf-Hirth-Str. 2
D-73730 Esslingen
Germany
E-Mail:
info.canada@kiesel.com
info.usa@kiesel.com
- **Information department:** Laboratory, departments of enviromental protection and labor protection
- **Emergency telephone number:** ChemTel Expert Assiatance Hotline 800-255-2824

2 Hazard identification

- **Classification of the substance or mixture**


GHS08 Health hazard
Respiratory Sensitizer - Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carcinogenicity - Category 1A H350 May cause cancer.

GHS05 Corrosion
Skin Corrosion - Category 1B H314 Causes severe skin burns and eye damage.
Serious Eye Damage - Category 1 H318 Causes serious eye damage.

GHS07
Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**


GHS05 GHS08

- **Signal word**

Danger

- **Hazard-determining components of labeling:**

Quarz
Reaktionsprodukt aus dimeren Fettsäuren , C18-ungesättigt, und Polyethylenpolyamin
3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin
Triethylenetetramine
Polyethylenpolyamine, Tetraethylenpentamin-Fraktion
3-(Triethoxysilyl)-propylamin
2-[(3-aminopropylmethylamino)ethanol]
3-(2-Aminoethylamino)-propyltrimethoxysilan
Causes severe skin burns and eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- **Hazard statements**

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· Precautionary statements

May cause an allergic skin reaction.
 May cause cancer.
 Keep out of reach of children.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Wash thoroughly after handling.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 [In case of inadequate ventilation] wear respiratory protection.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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.
 IF exposed or concerned: Get medical advice/attention.
 Specific treatment (see on this label).
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 If experiencing respiratory symptoms: Call a poison center/doctor.
 Wash contaminated clothing before reuse.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.
 contains quartz dust in the bound state.
 When grinding of hardened material may result in the formation of quartz dust.
 Quartz: Confirmed carcinogen with experimental carcinogenic, tumorigenic and neoplastigenic data. Human systemic effects by inhalation include: cough and dyspnea. Causes liver effects. IARC Group 1 (carcinogenic to humans).
 Restricted to professional users

· CARCINOGENICITY:

- Additional information:
- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 3
 Fire = 1
 Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = *3
 Fire = 1
 Reactivity = 0

3 Composition/Information on ingredients

- Composition/Information on ingredients

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· **Chemical characterization: Mixtures**

· **Dangerous components:**

CAS: 14808-60-7	Quarz Consisting of: 14808-60-7 Quarz (>98%); 14808-60-7 Quarz (Feinfraktion) (1-10%)  Carcinogenicity - Category 1A, H350
CAS: 68410-23-1	Reaktionsprodukt aus dimeren Fettsäuren , C18-ungesättigt, und Polyethylenpolyamin  Serious Eye Damage - Category 1, H318  Skin Irritation - Category 2, H315; Skin Sensitizer - Category 1, H317
CAS: 2855-13-2	3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin  Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318  Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Inhalation) - Category 4, H332; Skin Sensitizer - Category 1A, H317
CAS: 90640-67-8	Triethylenetetramine  Skin Corrosion - Category 1B, H314  Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) - Category 4, H312; Skin Sensitizer - Category 1, H317
CAS: 90640-66-7	Polyethylenpolyamine, Tetraethylenpentamin-Fraktion  Skin Corrosion - Category 1B, H314  Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) - Category 4, H312; Skin Sensitizer - Category 1, H317
	Organophile Schichtsilikate
CAS: 919-30-2	3-(Triethoxysilyl)-propylamin  Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318  Acute Toxicity (Oral) - Category 4, H302; Skin Sensitizer - Category 1, H317
CAS: 41999-70-6	2-[(3-aminopropylmethylamino)ethanol]  Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318  Acute Toxicity (Oral) - Category 4, H302; Acute Toxicity (Dermal) - Category 4, H312; Skin Sensitizer - Category 1, H317
CAS: 1760-24-3	3-(2-Aminoethylamino)-propyltrimethoxysilan  Respiratory Sensitizer - Category 1, H334  Skin Corrosion - Category 1B, H314; Serious Eye Damage - Category 1, H318  Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335

· **Additional information:** Mixture is not labeled as carcinogenic because silica (CAS: 14808-60-7) is bound
 For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.
 If you feel unwell, seek medical advice.

· **After inhalation:** Take affected persons into fresh air and keep quiet.
 Supply fresh air and to be sure call for a doctor.
 In case of unconsciousness place patient stably in side position for transportation.
 Seek medical treatment in case of complaints.

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- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *Drink copious amounts of water and provide fresh air. Immediately call a doctor.*
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** *Alcohol resistant foam
Fire-extinguishing powder
Carbon dioxide
Sand
Water spray
CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
Use fire fighting measures that suit the environment.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Special hazards arising from the substance or mixture** *During heating or in case of fire poisonous gases are produced.
No further relevant information available.*
- **Advice for firefighters**
- **Protective equipment:** *Wear non-circulation breathing equipment and chemical-protective clothing. Do not inhale explosion gases or fire fumes.*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** *Ensure adequate ventilation
Mount respiratory protective device.*
- **Environmental precautions:** *No special measures required.*
- **Methods and material for containment and cleaning up:** *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.*
- **Reference to other sections** *See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.*

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7 Handling and storage

- **Handling:**
- **Precautions for safe handling** *Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.*
- **Information about protection against explosions and fires:** *Keep respiratory protective device available.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Information about storage in one common storage facility:** *Store away from foodstuffs.*
- **Further information about storage conditions:** *Keep receptacle tightly sealed.*
- **Specific end use(s)** *No further relevant information available.*

8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** *No further data; see section 7.*
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- **Additional information:** *If the mixture is sprayed or sanded, quartz dust may form. Quartz-containing dust can cause cancer. Please wear personal protective equipment (respiratory protection).*
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** *Use skin protection cream for skin protection.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.*
- **Breathing equipment:** *Suitable respiratory protection for low concentrations or short-term exposure: particle filter EN 143 type P2 (medium retention capacity (solid and liquid pollutant particles))
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.*
- **Protection of hands:** *Solvent resistant gloves
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
- **Material of gloves** *Butyl rubber, BR*

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· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Tightly sealed goggles.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· Appearance:

Form:	Fluid
Color:	Yellowish
Odor:	Amine-like
Odor threshold:	Not determined.

· pH-value: Mixture is non-soluble (in water).

· Change in condition

Melting point/Melting range:	1,713 °C
Boiling point/Boiling range:	>200 °C

· Flash point: >100 °C

· Flammability: Not applicable.

· Decomposition temperature: Not determined.

· AUTO IGNITION: Not self igniting

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapor pressure at 1732 °C: 13.5 hPa

· Density at 20 °C: 1.11 g/cm³

· Bulk density:	1,400 kg/m ³
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.

· Solubility in / Miscibility with Water:

not miscible

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic at 20 °C:	1,000 mPas (DIN 53018)
Kinematic:	Not determined.

· Solvent content:

VOC-Content	0.00 %
	0.0 g/l / 0.00 lb/gal

Solids content:	64.0 %
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Volatile Organic Compounds	0.0 g/l
	0.00 %

· Other information

The physical data are average values.

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10 Stability and reactivity

- **Reactivity** **No further relevant information available.**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** **No decomposition if used according to specifications.**
- **Possibility of hazardous reactions** **Reacts with acids.**
- **Conditions to avoid** **No further relevant information available.**
- **Incompatible materials:** **No further relevant information available.**
- **Hazardous decomposition products:** **No dangerous decomposition products known.**

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

CAS: 2855-13-2 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin

Oral	LD50	1,030 mg/kg (ATE)
		1,030 mg/kg (Rat)

Inhalative	LC50/4 h	>5.01 mg/l (Rat)
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CAS: 90640-67-8 Triethylenetetramine

Oral	LD50	1,600 mg/kg (Rat)
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Dermal	LD50	1,472 mg/kg (Rabbit)
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CAS: 90640-66-7 Polyethylenpolyamine, Tetraethylenpentamin-Fraktion

Oral	LD50	3,221 mg/kg (Rat)
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Dermal	LD50	1,260 mg/kg (Rabbit)
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Organophile Schichtsilikate

Oral	LD50	>1,234,567 mg/kg (Rat)
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CAS: 919-30-2 3-(Triethoxysilyl)-propylamin

Oral	LD50	1,476 mg/kg (Ratte, weiblich)
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		2,698 mg/kg (Rat)
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Dermal	LD50	4,033 mg/kg (Rabbit)
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CAS: 41999-70-6 2-[(3-aminopropylmethylamino)ethanol]

Oral	LD50	200-500 mg/kg (Rat)
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Dermal	LD50	1,000-2,000 mg/kg (Rabbit)
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- **Primary irritant effect:**

- **on the skin:**

- **on the eye:**

Caustic effect on skin and mucous membranes.

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 14808-60-7 Quarz	1
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- **NTP (National Toxicology Program)**

CAS: 14808-60-7 Quarz	K
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12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

CAS: 2855-13-2 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin

Oral	EbC50 (72h)	37 mg/l (Alge Scenedesmus sp)
	LC 50 (96h)	110 mg/l (Goldorfe (Leuciscus idus))
	EC50 (48h)	23 mg/l ((Wasserfloh (Daphnia magna)))
	EC10 (18h)	1,120 mg/l (Bakterien)

CAS: 919-30-2 3-(Triethoxysilyl)-propylamin

	LC 50 (96h)	>934 mg/l (Danio rerio (Zebraabärbling)) (OECD Richtline 203)
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CAS: 41999-70-6 2-[(3-aminopropylmethylamino)ethanol]

	LC 50 (96h)	315.7 mg/l (Fisch)
	EC50 (48h)	145 mg/l (Dap)

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:** Disposal in accordance with official regulations

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

DOT/TDG, ADR, IMDG, IATA	UN1719
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· UN proper shipping name · DOT/TDG	Caustic alkali liquids, n.o.s. (Triethylenetetramine, 3-(Triethoxysilyl)-propylamin)	
· ADR	1719 Caustic alkali liquids, n.o.s. (Triethylenetetramine, 3-(Triethoxysilyl)-propylamin), ENVIRONMENTALLY HAZARDOUS	
· ADN · IMDG, IATA	ENTH.POLYAMINE CAUSTIC ALKALI LIQUID, N.O.S. (TRIETHYLENETETRAMINE, 3-aminopropyltriethoxysilane)	
· Transport hazard class(es) · DOT/TDG (Transport dangerous goods):		
· Class · Label	8 Corrosive substances 8	
· ADR, IMDG	 	
· Class · Label	8 Corrosive substances 8	
· IATA		
· Class · Label	8 Corrosive substances 8	
· Packing group · DOT/TDG, ADR, IMDG, IATA	II	
· Environmental hazards: · Marine pollutant:	No Symbol (fish and tree)	
· Special marking (ADR):	Symbol (fish and tree)	
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances 80 F-A,S-B (SGG18) Alkalis A SG22 Stow "away from" ammonium salts SG35 Stow "separated from" SGG1-acids	
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:	Postversand	UNZULÄSSIG
· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging:	

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.	500 ml
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (TRIETHYLENETETRAMINE, 3-(TRIETHOXYSILYL)-PROPYLAMIN), 8, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

CAS: 14808-60-7	Quarz	ACTIVE
CAS: 68410-23-1	Reaktionsprodukt aus dimeren Fettsäuren , C18-ungesättigt, und Polyethylenpolyamin	ACTIVE
CAS: 2855-13-2	3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin	ACTIVE
CAS: 919-30-2	3-(Triethoxysilyl)-propylamin	ACTIVE
CAS: 41999-70-6	2-[(3-aminopropylmethylamino)ethanol]	ACTIVE
CAS: 1760-24-3	3-(2-Aminoethylamino)-propyltrimethoxysilan	ACTIVE

- **MAK (German Maximum Workplace Concentration)**

CAS: 14808-60-7	Quarz	1
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- **Per- and polyfluoroalkyl substances (PFAS)**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05 GHS08

- **Signal word**

Danger

- **Hazard-determining components of labeling:**

Quarz
 Reaktionsprodukt aus dimeren Fettsäuren , C18-ungesättigt, und Polyethylenpolyamin
 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin
 Triethylenetetramine
 Polyethylenpolyamine, Tetraethylenpentamin-Fraktion
 3-(Triethoxysilyl)-propylamin
 2-[(3-aminopropylmethylamino)ethanol]
 3-(2-Aminoethylamino)-propyltrimethoxysilan

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- **Hazard statements** *Causes severe skin burns and eye damage.*
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.*
- May cause an allergic skin reaction.*
- May cause cancer.*
- **Precautionary statements** *Keep out of reach of children.*
- Obtain special instructions before use.*
- Do not handle until all safety precautions have been read and understood.*
- Do not breathe dust/fume/gas/mist/vapours/spray.*
- Wash thoroughly after handling.*
- Contaminated work clothing should not be allowed out of the workplace.*
- Wear protective gloves/protective clothing/eye protection/face protection.*
- [In case of inadequate ventilation] wear respiratory protection.*
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.*
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
- 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.*
- IF exposed or concerned: Get medical advice/attention.*
- Specific treatment (see on this label).*
- Take off contaminated clothing and wash it before reuse.*
- If skin irritation or rash occurs: Get medical advice/attention.*
- If experiencing respiratory symptoms: Call a poison center/doctor.*
- Wash contaminated clothing before reuse.*
- Store locked up.*
- Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **National regulations:**
- **Information about limitation of use:** *Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.*
- Exceptions can be made by the authorities in certain cases.*
- Employment restrictions concerning young persons must be observed.*
- Employment restrictions concerning pregnant and lactating women must be observed.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

16 Other information

Chapters which have been revised from the previous issue are marked "***".

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

To the best of our knowledge, the information contained in this MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this MSDS relate only to the specific material designated herein. We do not assume any liability for the use, or reliance in this information, nor do we guarantee its accuracy or completeness.

- **Relevant phrases** *H302 Harmful if swallowed.*

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H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H350 May cause cancer.

- **Contact:**

- **Date of the latest revision of the safety data sheet**

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- **Abbreviations and acronyms:** IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organisation
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative

- *** Data compared to the previous version altered.**

CA