

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

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

1.1 Product identifier

Trade name KT-SMR

UFI: 6W10-90Y2-C007-D9Y9

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

No further relevant information available.

Application of the substance / the mixture Industrial / commercial use

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Chemtec Chemicals GmbH

August-Siemsen-Straße 13

D-21521 Dassendorf

Germany

Phone: +49 4104 91897 99

E-Mail: info@ctc-chemtec.de

Informing department: Product safety department

1.4 Emergency telephone number:

Medical Emergency information in case of poisoning:

Poison Information Center Mainz - 24h - Phone: +49 (0) 6131 19240 (advisory service in German or English language)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05

Signal word Danger

Hazard-determining components of labelling:

sodium hydroxide

disodium metasilicate

sodium dodecylbenzenesulphonate

Hazard statements

H314 Causes severe skin burns and eye damage.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

Trade name KT-SMR

(Contd. of page 1)

Precautionary statements

P260 Do not breathe dusts or mists.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions

Dangerous components:

CAS: 497-19-8 EINECS: 207-838-8 Reg.nr.: 01-2119485498-19	sodium carbonate ⚠ Eye Irrit. 2, H319	25-50%
CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 01-2119457892-27	sodium hydroxide ⚠ Met. Corr. 1, H290; Skin Corr. 1A, H314	25-50%
CAS: 6834-92-0 EINECS: 229-912-9 Reg.nr.: 01-2119449811-37	disodium metasilicate ⚠ Met. Corr. 1, H290; Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	2.5-10%
CAS: 25155-30-0 EINECS: 246-680-4 Reg.nr.: 01-2120088038-51	sodium dodecylbenzenesulphonate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	2.5-10%

SVHC

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Regulation (EC) No 648/2004 on detergents / Labelling for contents

phosphates, anionic surfactants	≥5 - <15%
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Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Instantly remove any clothing soiled by the product.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

Trade name KT-SMR

(Contd. of page 2)

After inhalation

In case of inhalation of dust provide with fresh air. Wash face with water. Seek medical advice if symptoms persist.

After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

After eye contact

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

Use fire fighting measures that suit the environment.

Carbon dioxide, extinguishing powder, water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Formation of poisonous gases during heating or in fires.

5.3 Advice for firefighters

Protective equipment:

See section 8.

Wear full protective suit with self-contained breathing apparatus.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Put on breathing apparatus.

Wear protective equipment and keep unprotected persons away.

6.2 Environmental precautions:

Damp down dust with water spray jet.

Do not allow to enter drainage system, surface or ground water.

If large amounts are released, the authorities must be informed.

6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

Ensure adequate ventilation.

Pick up mechanically and rinse the remainder with water. Avoid dust development. Place in suitable container and send to be recycled or disposed (taking item 13 into account).

6.4 Reference to other sections

See Section 7 for information on safe handling

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

Trade name KT-SMR

(Contd. of page 3)

See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep containers tightly sealed.

Prevent formation of dust.

Avoid contact with eyes and skin.

When preparing solutions, always stir product into water.

Information about protection against explosions and fires:

Keep breathing equipment ready.

Pay attention to general rules of internal fire prevention.

7.2 Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed. Store in cool, dry conditions.

Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water hazardous substances

Keep container tightly closed and dry

Information about storage in one common storage facility:

Do not store together with oxidising and acidic materials.

Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems:

In case of dust development, suction is needed.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

CAS: 1310-73-2 sodium hydroxide (25-50%)

WEL Short-term value: 2 mg/m³

DNELs

CAS: 1310-73-2 sodium hydroxide

Dermal	DNEL (worker)	<2 % wt. (Acute - local effects)
Inhalative	DNEL (worker)	1 mg/m ³ (Long-term - local effects) (most sensitive endpoint: Irritation)
	DNEL (population)	1 mg/m ³ (Long-term - local effects)

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

Trade name KT-SMR

(Contd. of page 4)

Do not inhale dust. Prevent formation of dust.

Breathing equipment:

Breathing protection to be used where a build-up of dust occurs.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands:

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

Nitrile rubber, NBR, recommended thickness of the material: ≥ 0.4 mm, penetration time: ≥ 480 min.

Butylrubber, BR, recommended thickness of the material: ≥ 0.7 mm, penetration time: ≥ 480 min.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

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

Eye protection: *Tightly sealed safety glasses.*

Body protection: *Standard protective working clothes*

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Granules and powder

Colour: White

Smell: Odourless

Odour threshold: Not determined.

pH-value (10 g/l) at 20 °C: 12.5-13

Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: Product is non-flammable nor potentially explosive

Inflammability (solid, gaseous) Not determined.

Ignition temperature: (lowest level for individual components)

Decomposition temperature: Not determined.

Self-inflammability: Product is not selfigniting.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

Trade name KT-SMR

(Contd. of page 5)

Explosive properties:	Product is not potentially explosive Organic solids: dust can form an explosive mixture with air.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density at 20 °C	ca. 0.974 g/cm ³
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Soluble
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Strong exothermic reaction with acids

Reacts with various metals

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

Acids

Reactions with strong oxidising agents.

10.6 Hazardous decomposition products:

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

Trade name KT-SMR

(Contd. of page 6)

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	7,884-8,365 mg/kg (rat)
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Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

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.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 1310-73-2 sodium hydroxide

EC 50 / 48 h	40.4 mg/l (Ceriodaphnia dubia)
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12.2 Persistence and degradability

Inorganic product, is not removable from water by biological cleaning process

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (Self-assessment): hazardous for water according to German AwSV.

Do not allow product to reach ground water, water bodies or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

Trade name KT-SMR

(Contd. of page 7)

Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

Uncleaned packagings: Disposal must be made according to official regulations.

Recommendation:

After complete emptying and cleaning, send to be reconditioned or recycled.

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA UN3262

14.2 UN proper shipping name

ADR 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)
IMDG, IATA CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

14.3 Transport hazard class(es)
ADR

Class 8 (C6) Corrosive substances.
Corrosive substances.

Label 8

IMDG, IATA

Class 8 Corrosive substances.
Label 8

14.4 Packing group

ADR, IMDG, IATA II

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Warning: Corrosive substances.

Kemler Number: 80

EMS Number: F-A, S-B

Segregation groups Alkalies

Stowage Category B

Segregation Code SG35 Stow "separated from" SGG1-acids

14.7 Transport in bulk according to

Annex II of Marpol and the IBC Code Not applicable.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

Trade name KT-SMR

(Contd. of page 8)

Transport/Additional information:
ADR
Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

Transport category

2

Tunnel restriction code

E

IMDG
Limited quantities (LQ)

1 kg

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

UN "Model Regulation":

UN 3262 CORROSIVE SOLID, BASIC, INORGANIC,
N.O.S. (SODIUM HYDROXIDE), 8, II

SECTION 15: Regulatory information

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

TSCA (Toxic Substances Control Act)

All ingredients are listed.

Canadian Domestic Substances List (DSL)

All ingredients are listed.

Philippines Inventory of Chemicals and Chemical Substances

All ingredients are listed.

Chinese Chemical Inventory of Existing Chemical Substances

All ingredients are listed.

Australian Inventory of Industrial Chemicals

All ingredients are listed.

Korean Existing Chemical Inventory

All ingredients are listed.

New Zealand Inventory of Chemicals

All ingredients are listed.

TCSI - Taiwan Chemical Substance Inventory

All ingredients are listed.

Existing Chemical Substances (Japan)

All ingredients are listed.

Directive 2012/18/EU
Named dangerous substances - ANNEX I Not all ingredients are listed

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2020

Version number 101

Revision: 11.12.2020

Trade name KT-SMR

(Contd. of page 9)

National regulations

Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Department issuing data specification sheet: see item 1: Informing department

Abbreviations and acronyms:

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC and RCR= Estimated Exposure/DNEL)

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

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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