

Date of issue : 30.09.2011 Replaces Data Sheet of : 08.01.2008
 "*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



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

- 1.1 **Product identifier**
Trade Name : Katrock
Article No. : n.av.
Preparation No. : n.av.
Registration No. : n.av.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
 Use: non-explosive demolition agent
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier :**
 SAKRET Bausysteme GmbH & Co. KG, Batverstraße 84, D- 41462 Neuss
 Telephone : +49-2131-9500-0, Telefax : , E-Mail : sdb@sakret.net
- 1.3.2 **Responsible :**
 SAKRET Bausysteme GmbH & Co. KG, Bataverstr. 84, D-41462 Neuss; E-Mail: sdb@sakret.net
- 1.4 **Emergency telephone number**
 Emergency - Telephone of Company / Undertaking



 Telephone : +49-2131-99 58-136 (08:00 - 16:30) E-Mail: sdb@sakret.net

SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**

 Classification according to 1999/45/EC: Xi - Irritant

 Classification according to 1272/2008/EC: Eye Dam. 1 / Skin Irrit. 2 / STOT SE 3 Route of exposure: Inhalation
- 2.2 **Label elements**
 Classification according to EEC - Regulations : Yes.
 Applicable Exemptions : No.
 Hazard Identification : Irritant
 Component(s) : contains Calcium Oxide
- R - Phrases :**
 R 37/38: Irritating to respiratory system and skin

 R 41: Risk of serious damage to eyes.
- S - Phrases :**
 S 2: Keep out of reach of children.
 S 22: Do not breathe dust.
 S 24/25: Avoid contact with skin and eyes.
 S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
- Additional Markings :
- Classification according to 1272/2008/EC : Yes.
 Signal word(s) : Danger
 Component(s) : contains Calcium Oxide
- H - Phrases :**
 H 318: Causes serious eye damage.
 H 315: Causes skin irritation.
 H 335: May cause respiratory irritation.
- Hazard Symbol(s) : 
- Hazard pictogram(s) : 

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P - Phrases :

P102: Keep out of reach of children

P 280: Wear protective gloves/protective clothing/eye protection/face protection.

P 305+ P 351+ P 310: IF IN EYES: Rinse cautiously with water for several minutes.

Immediately call a POISON CENTER or doctor/physician.

P 302+ P 352: IF ON SKIN: Wash with plenty of soap and water.

P 261: Avoid breathing dust.

P 304+ P 340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P 501: Dispose of contents to an appropriate collecting point

The above mentioned labelling is valid for distribution to industrial user

2.3 Other hazards**The substance does not meet the criteria for PBT or vPvB substance.**

Aqueous, alkaline solution causes irritation of eyes, skin and mucous membranes.

SECTION 3: Composition/information on ingredients**3.1 Substances****Chemical Characterisation : Preparation; mixture with Calciumoxide****3.2 Mixtures - Dangerous Ingredients :**

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R / H - phrases
1305-78-8	n.av.	215-138-9	Calcium Oxide	70 - 90%	Xi ;	R 37/38-41 ;
584-08-7	n.av.	n.av.	Kaliumcarbonate	1 < 5 %	GHS05 GHS07 Xi	H318 H315 H335 R 36/37/38

SECTION 4: First aid measures**4.1 Description of first aid measures****4.1.1 Inhalation :**

Move to fresh air. If coughing, difficult breathing or other symptoms of poisoning occur, even after several hours, call a physician immediately.

4.1.2 Skin Contact :

Before washing use a dry brush to remove dust from skin. Wash off immediately with soap and plenty of water. Take off all contaminated clothing immediately. If symptoms persist, call a physician.

4.1.3 Eye Contact :

Call a physician immediately. Rinse thoroughly with plenty of water, also under the eyelids.

4.1.4 Ingestion :

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting.

Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Dry powder, like other inert materials, are mechanically irritating to eyes (cornea injury). Risk of serious damage to eyes. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media : The product is not combustible. Use a dry powder, foam or CO2.**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.2 Extinguishing Media to Avoid :

Do not use water. Avoid humidification.

5.2 Special hazards arising from the substance or mixture

Calcium oxide reacts with water and generates heat. This may cause risk to flammable material..

5.3 Advice for firefighters**5.3.1 Special Protective Equipment :**

Avoid generation of dust. Use breathing apparatus.

5.3.2 Additional Information :

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation. Keep dust levels to a minimum. Avoid humidification.
- 6.2 **Environmental precautions**
Cover area if possible to avoid unnecessary dust hazard. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
- 6.3 **Methods and material for containment and cleaning up**
Use mechanical handling equipment. Avoid dust formation. Can be used without re-conditioning.
Contact with water: Allow to solidify, use mechanical handling equipment.
- 6.4 **Reference to other sections**
For more information, please check section 8 and 13 of this safety data sheet.

SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling**
- 7.1.1 **Precautions for Safe Handling :**
Avoid dust formation. Ensure adequate ventilation. Avoid contact with the skin and the eyes.
When diluting, always add the product to water. Never add water to the product.
When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.
Use protective skin cream before handling the product.
- 7.1.2 **Precautions in Case of Fire and Explosion :**
None.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions :**
Store in original container. Never allow product to get in contact with water during storage.
- 7.2.2 **Store away from :**
Do not store together with acids and nitro compounds. Do not use aluminium for transport or storage.
- 7.2.3 **Further Information on Storage Conditions :**
At unsuitable storage conditions, as contact with water: Product may cause skin and respiratory irritation to persons by skin contact or by inhalation of dust. Do not use containers made of aluminium.
- 7.3 **Specific end use(s)**
n.av.

SECTION 8: Exposure controls/personal protection

- 8.1 **Control parameters**
G7 C9 @fYwta a YbXUjcb fG7 C9 @GI A#% +: YVfi Ufm&\$\$, /gYYGYWjcb`%`™ Ł
Occupational Exposure Limit (OEL), 8 h TWA: 1 mg/m³ respirable dust of calcium oxide
Short-term exposure limit (STEL), 15 min: 4 mg/m³ respirable dust of calcium oxide
PNEC aqua = 370 µg/l PNEC soil/groundwater = 816 mg/l
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls**
Avoid dust formation.
Provide for appropriate exhaust ventilation and dust collection at machinery.
- 8.2.2 **Individual protection measures**
- 8.2.2a **Respiratory Protection :** Respirator must be worn if exposed to dust.
Half mask with a particle filter FFP1.
- 8.2.2b **Hand Protection :** Protective gloves complying with EN 374 (Nitrile rubber soaked cotton).
Request information on glove permeation properties from the glove supplier.
Do not wear leather gloves.
- 8.2.2c **Eye Protection :** Tightly fitting safety goggles. It is advisable to have individual pocket eyewash.
- 8.2.2d **Skin Protection :** Protective standard working clothes fully covering skin.
- 8.2.3 **Environmental exposure controls :**
All ventilation systems should be filtered before discharge to atmosphere.
Avoid releasing to the environment.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

9.1.1	Form : powder	Colour : see label	Odour : odourless
9.1.2	pH-value, undiluted :	n.ap.,	pH-value, 1% aqueous solution : 11 - 13,5
9.1.3	Boiling point / Boiling - range (°C) :	n.ap.,	Melting point / Melting range (°C) : > 450
9.1.4	Flash point (°C, c.c.) :	n.ap.,	
9.1.5	Flammability (EEC A10/A13) :	n.ap.	
9.1.6	Ignition temperature (°C) :	n.ap.	
9.1.7	Autoflammability (EEC A16) :	n.ap.	
9.1.8	Oxidising properties :	n.ap.	
9.1.9	Explosion hazard :	n.ap.	
9.1.10	Explosion limits (Vol.%) lower :	n.av.,	upper : n.av.
9.1.11	Vapour pressure :	n.ap.	
9.1.12	Density (g/ml) :		Bulk density: 900 - 1500
9.1.13	Solubility (in Water) :		1,5g / l (20°C)
9.1.14	Partition coefficient, n-Octanol/Water :	n.ap.	
9.1.15	Viscosity :	n.ap.	
9.1.16	Solvent separation test :	n.ap.	
9.1.17	Solvent content (m %) :	n.ap.	
9.2	Other information		
9.2.1	Thermal decomposition (°C) :	n.ap.	
9.2.2	Vapour density (Air = 1) :	n.ap.	
9.2.3	Evaporation rate :	n.ap.	

SECTION 10: Stability and reactivity

10.1	Reactivity Calcium oxide (CaO) reacts exothermically with water to form Calcium dihydroxide.
10.2	Chemical stability Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions Calcium oxide (CaO) reacts exothermically with acids to form calcium salts.
10.4	Conditions to avoid Humid air and water.
10.5	Incompatible materials. "5 WXgZU i a]bji a "7 cffcXYg VUgY a YtUg" CaO reacts with aluminium and brass in the presence of moisture leading to the production of hydrogen
10.6	Hazardous decomposition products No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1	Information on toxicological effects	
11.1.1	Acute Health Effects :	
	Inhalation, LC ₅₀ rat, (mg/l/4h) :	No data available. - Irritating to respiratory system.
	Ingestion, LD ₅₀ rat, (mg/kg) :	> 2000
	Skin - contact, LD ₅₀ rabbit, (mg/kg) :	> 2500 (calcium dihydroxide)
	Irritation (to skin / eye) :	Risk of serious damage to eyes. Irritating to skin.
	Sensitisation :	None.
11.1.2	Subacute / Chronic Toxicity :	
	Carcinogenicity :	n.av.
	Mutagenicity :	n.av.
	Teratogenicity :	n.av.
	Narcotic Effects :	None.
11.1.3	Practical Experience	
11.1.3.1	Observations relevant for classification :	None.
11.1.3.2	Further Observations :	Prolonged skin contact with aqueous solution may cause skin irritation and/or dermatitis.
11.1.4	General Remarks : Classification of the preparation has been done by calculation in accordance with EEC directives.	

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SECTION 12: Ecological information

- 12.1 **Toxicity**
Ecological injuries are not known or expected under normal use.
Product may soil public waters by increasing pH.
- 12.2 **Persistence and degradability**
The methods for determining biodegradability are not applicable to inorganic substances.
- 12.3 **Bioaccumulative potential**
Not relevant for inorganic substances
- 12.4 **Mobility in soil**
Low mobility in most soils
- 12.5 **Results of PBT and vPvB assessment**
Not relevant for inorganic substances
- 12.6 **Other adverse effects**
 - 12.6.1 COD-Value, mg/g : n.av.
 - 12.6.2 BOD₅-Value, mg/g : n.av.
 - 12.6.3 AOX-Remarks : Not applicable.
 - 12.6.4 Significant Components : n.ap.
 - 12.6.5 Other adverse effects : Not applicable.

SECTION 13: Disposal considerations

- 13.1 **Waste treatment methods**
 - 13.1.1 Recommendation : D 1 Waste - Code - No. : 17 09 04
In addition comply with the regional authorities.
- 13.2 **Contaminated Packaging**
 - 13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues.
 - 13.2.2 Safe Handling : As described under Residues.

SECTION 14: Transport information

	ADR Not a dangerous substance as defined in the above regulations.	IMDG Not a dangerous substance as defined in the above regulations.	IATA Not a dangerous substance as defined in the above regulations.
14.1	UN number. ' ' ' ' B ' % % \$		
14.2	UN proper shipping name. ' 7 U V j i a ' c l j X Y		
14.3	Transport hazard class(es)		
14.4	Packing group		
14.5	Environmental hazards		
14.6	Special precautions for user Transport-category : Classification Code : Hazard - No. : LQ:		Packing Instructions (Passenger): Packing Instructions (Cargo):
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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Wassergefährdungsklasse 1
(National regulation in Germany)**15.2 Chemical safety assessment : None.****SECTION 16: Other information****Text of R / H - phrases mentioned in Section 3:**

R 37/38: Irritating to respiratory system and to skin.

R 41: Risk of serious damage to eyes.

H 315: Causes skin irritation.

H 318: Causes serious eye damage.

H 335: May cause respiratory irritation.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Abbreviations

EC50: median effective concentration

LC50: median lethal concentration

LD50: median lethal dose

NOEC: no observable effect concentration

OEL: occupational exposure limit

PBT: persistent, bioaccumulative, toxic chemical

PNEC: predicted no-effect concentration

STEL: short-term exposure limit

TWA: time weighted average

vPvB: very persistent, very bioaccumulative chemical