

MATERIAL SAFETY DATA SHEET

MK 66

burnusHYCHEM GmbH, D-36396 Steinau, Germany

Revision date: 11.05.2000; Print date: 8.12.2005

Page 1/4

1. Identification of the substance/preparation and company

Product name: MK 66

Producer: burnusHYCHEM GmbH, Karl-Winnacker-Str. 22,
D-36396 Steinau, Germany, phone: +49-6663-976-0

Information desk: burnus GmbH, phone: +49-6151-873699

Emergency phone no.: Beratungsstelle für Vergiftungen, Universitätsklinikum Mainz
Phone: +49-6131-19240

2. Composition / information on ingredients**Hazardous Ingredients:**

CAS-No.	Description according to EC-Guideline	Content	Unit	Symbol	R-Phrases
10213-79-3	Disodiumtrioxosilicate pentahydrate	30	%	C	34-37
497-19-8	sodium carbonate	30	%	X _i	36
69011-35-5	fatty-alcohol ethoxylate	<5	%	X _n	22-41
69011-35-5	fatty-alcohol ethoxylate non-ionic surfactants	<5	%	X _i	41

3. Hazards identification

Product irritates skin and mucous membranes, in case of eye contact danger of serious eye damages. Leaking product causes damages to waters due to up salting and general pollution.

4. First aid measures

After inhalation: Fresh air, seek medical advice.

After contact with skin: Remove contaminated clothing, wash skin with plenty of water and rub off with mild acid such as vinegar or lemon juice.

After contact with eyes: Immediately flush eyes with plenty of water, holding eyelids apart. Obtain medical advice.

After ingestion: Do not induce vomiting - danger of suffocation due to foam aspiration. Seek medical advice.

5. Fire-fighting measures

Suitable extinguishing media: Adjust to environment.

Unsuitable extinguishing materials due to safety reasons: Not applicable.

Particular dangers due to the substance, its combustion products or released gases:

Thermal decomposition into carbon monoxide, carbon dioxide and organic fission products.

Special protective equipment for fire-fighters: Wear tightly closed protection suit and self-contained breathing apparatus. Equipment has to withstand alkalis.

6. Accidental release measures

Personal precautions: Refer to point no. 8 "Exposure controls/personal protective equipment".

Environmental precautions and methods for cleaning up: Do not discharge into the drains/surface waters/groundwater, collect mechanically, rinse limited spillage with plenty of water. Do not reuse spilled product.

Additional information: None

7. Handling and storage

Handling:

Advice on safe handling: Keep container tightly closed and in a cool place; refer to general precautions when handling chemicals.

Protective measures against fire and explosions: Do not store with easily inflammable materials.

Storage:

Requirements for storage rooms and vessels: Care for appropriate ventilation and de-aeration. Do not store container at more than 40 °C.

Advice on storage compatibility: Refer to "Protective measures against fire and explosions"

Further information on storage conditions: Avoid contaminations.

Storage class according to VCI:

8. Exposure controls / personal protection

Additional advice on system design: Not available. Refer to point no. 7 "Handling and storage".

Ingredients with exposure limits relevant to employment (TRGS 900 Germany): Not relevant.

Personal protective equipment:

General protective and hygienic measures: Avoid skin and eye contact, do not eat, drink or smoke during work, use precautionary skin protection. Exhaust dust while pouring into another container.

Breathing protection: Use particle filter when dust occurs.

Hand protection: Protective rubber or PVC gloves.

Eye protection: Tight goggles or eye/face protection.

Body protection: Protective clothing (rubber or PVC).

9. Physical and chemical properties

Appearance:

Shape: powder

Colour: white

Odour: none

Safety-relevant data:

Melting point: not available

Boiling point: not applicable

Flash point: not applicable

pH-value (10 g/l H₂O); (at T=20°C): 11.0-12.0

Flammability: not applicable

Ignition temperature: not applicable

Auto-ignition temperature: not applicable

Oxidizing properties: > 60 °C emission of O₂

Explosive properties: not applicable

Explosive limits: lower: not applicable

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Page 3/4

	upper:	not applicable
Additional data:		
Density (at T=20°C):		970 g/l
Solubility in water (at T=20°C):		soluble
Vapour pressure (at T=20°C):		not applicable
Relative vapour density (air=1):		not applicable
Partition coefficient (n-octanol/water):		not applicable
Viscosity (at T=20°C):		not applicable
Solvent separation examination:		not applicable
Solvent content:		not applicable
Evaporation number:		not applicable

10. Stability and reactivityConditions to avoid: Do not store over 40 °C.Materials to avoid: Easily inflammable materials and acids (formation of carbon dioxide).Hazardous decomposition products: In case of fire – refer to point no. 5.Additional information: > 60°C product deoxidises.**11. Toxicological information**Acute toxicity data: No data available.Human experiences: No data available.Additional toxicological information: No data available.**12. Ecological information**Information on elimination (persistence / degradability):

At least 90 % elimination grade for washing active substances, according to German Detergent and Cleanser Law (WRMG). Inorganic ingredients are not biodegradable.

Behaviour in environmental compartments: No data available.Ecotoxic effects:

LC 50 48h 175 mg Bor/l (Gold orfen) sodium perborate tetrahydrate

Perborate contained in the product decomposes into metaborate and oxygen.

Additional ecological information:COD-value (chemical oxygen demand): 225 mg O₂/l C=0.1 % in H₂O**13. Advice on disposal**

Disposal of material and not-cleaned containers should be in accordance with local legislation.

Classification according to European catalogue for waste material:

07 06 01 aqueous washing liquids and stock solutions (used).

14. Transport informationoverland transportation (GGVS/ADR, GGVE/RID, GGVBinsch/ADNR):

ADR/RID: 8 (C6)

UN-No: 3262

Packing group III

Description: corrosive solid, basic inorganic, n.o.s. (disodiumtrioxosilicate)

Marine transport (GGVSee/IMDG-Code):

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Page 4/4

IMDG-Code: 8

UN number: 3262

Packaging group: III

EMS number: F-A, S-B

MFAG: 705

IMDG-Code page: 8

Marine pollutant: no

Proper technical name: Disodiumtrioxosilicate

Air Transport(ICAOTI/IATA-DGR):

Class: 8

UN/ID-no.: 3262

Packing group: III

Proper shipping name: corrosive solid, basic inorganic, n.o.s. (disodiumtrioxosilicate)

15. Regulatory information

Labelling according to EEC-guidelines:

Symbol: C - corrosiveHazard determining component for labelling: not relevant

R(isk) phrase(s): 34 causes chemical burns
S(afety) phrase(s): 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 use protection clothing, protective gloves and safety goggles
45 in case of feeling sick, seek medical advice
60 product and packaging need to be disposed as hazardous waste

Special labelling: none

National regularity instructions:

Employment restriction according to § 15 b German GefStoffV: yes

Storage restriction according to § 24 German GefStoffV: yes

Referenced in Annex II German Störfallverordnung: not relevant

Classification according to German VbF: not relevant

German TA Luft, Annex E: not relevant

German water risk class: WGK 1

Additional regularities, prohibitions and decrees: Refer to leaflet ZH 1/-229 of the trade association of the chemical industry.

16. Other information

Above information represent the state of our nowadays knowledge and may not be considered as contract affirmations of product properties. These data are not allowed to be changed or transferred to other products. Duplication in unaltered form is allowed.

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