

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.06.2013

Version number 4

Revision: 10.06.2013

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

- **Date of compilation:** 09.03.2010
- **1.1 Product identifier**
- **Trade name:** Special cleaner soft for CleanJet® and hand cleaning
- **Article number(s):** MG4194702 (9006.0141)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation:** Alkaline cleaner / detergent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**

LM GmbH	Metos Oy Ab	+358 204 394246
Iglinger Straße 62	Ahjonkaarre	web: www.metos.com
D-86899 Landsberg	FIN-04220 Kerava	
- **E-mail address of the competent person responsible for the Safety Data Sheet:** juha.tirkkonen@metos.com
- **Informing department:** Product management
- **1.4 Emergency telephone number:**
112

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36/38: Irritating to eyes and skin.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **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:**

Silicic acid, potassium salt

- **Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

(Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.06.2013

Version number 4

Revision: 10.06.2013

Trade name: Special cleaner soft for CleanJet® and hand cleaning

(Contd. of page 1)

· Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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 or doctor/physician.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.

· 2.3 Other hazards
· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures
· Description: Aqueous solution

· Dangerous components:

CAS: 68604-71-7 EINECS: 271-704-5	Disodium cocoamphodipropionate ☒ Xi R36/38 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5-10%
CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8	Potassium hydroxide ☒ C R35; ☒ Xn R22 ⚠ Met. Corr.1, H290; Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302	< 2.5%
CAS: 1312-76-1 EINECS: 215-199-1	Silicic acid, potassium salt ☒ Xi R38-41 ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	< 2.5%
CAS: 68188-18-1 EINECS: 269-144-1	Sodium alkylsulfonate ☒ Xi R36/38 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 2.5%
CAS: 70592-80-2 EINECS: 274-687-2	Amines, C10-16-alkyldimethyl, N-oxides ☒ Xi R38-41; ☒ N R50 ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Skin Irrit. 2, H315	< 2.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

· Ingredients according to Regulation (EC) No 648/2004:

phosphates	15 - 30%
amphoteric surfactants, anionic surfactants	< 5%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **General information:** Immediately remove any clothing contaminated by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Use eye protection.
Call a doctor immediately.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.06.2013

Version number 4

Revision: 10.06.2013

Trade name: Special cleaner soft for CleanJet® and hand cleaning

(Contd. of page 2)

- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If swallowed, seek medical advice immediately and show this container or label.
- **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**
Carbon dioxide (CO₂), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** none
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire:
Sulphur dioxide (SO₂)
Oxides of phosphorus (PxOy)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** 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**
Wear protective clothing.
Avoid contact with skin and eyes.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with skin and eyes.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in the original container.
Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from frost.
Store and transport upright.
- **7.3 Specific end use(s)** No further relevant information available.

GB

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.06.2013

Version number 4

Revision: 10.06.2013

Trade name: Special cleaner soft for CleanJet® and hand cleaning

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

1310-58-3 Potassium hydroxide

WEL (Great Britain)	Short-term value: 2 mg/m ³
---------------------	---------------------------------------

· **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 foodstuffs, beverages and food.

Instantly remove any contaminated garments.

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

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not eat, drink or smoke while working.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:**

Protective gloves

Check the permeability prior to each renewed use of the glove.

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

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** Protective gloves should be replaced at first signs of wear.

· **Eye protection:** Tightly sealed safety glasses

· **Body protection:**

Protective work clothing

Body protection must be chosen depending on activity and possible exposure.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: liquid

Colour: red

· **Smell:** characteristic

· **Odour threshold:** not determined

· **pH-value at 20 °C:** 10.9

· **Change in condition**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.06.2013

Version number 4

Revision: 10.06.2013

Trade name: Special cleaner soft for CleanJet® and hand cleaning

(Contd. of page 4)

· Flash point:	<i>not applicable</i>
· Inflammability (solid, gaseous)	<i>Not applicable.</i>
· Ignition temperature:	
Decomposition temperature:	<i>Not determined.</i>
· Self-inflammability:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Product is not explosive.</i>
· Critical values for explosion:	
Lower:	<i>Not determined.</i>
Upper:	<i>Not determined.</i>
· Oxidizing properties	<i>not classified as oxidising</i>
· Vapor pressure:	<i>Not determined.</i>
· Density at 20 °C:	<i>1.165 g/cm³</i>
· Relative density	<i>Not determined.</i>
· Vapour density (AIR = 1):	<i>Not determined.</i>
· Evaporation rate	<i>Not determined.</i>
· Solubility in / Miscibility with Water:	<i>fully miscible</i>
· Partition coefficient (n-octanol/water):	<i>Not determined.</i>
· Viscosity:	
dynamic:	<i>not determined</i>
kinematic:	<i>not determined</i>
· 9.2 Other information	<i>Further informations please refer to technical data sheet.</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:**
Sulphur oxides (SO_x)
Phosphorus oxides (e.g. P₂O₅)

SECTION 11: Toxicological information

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

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

1310-58-3 Potassium hydroxide

Oral LD50 365 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** *Irritating to skin.*
- **on the eye:** *Causes serious eye damage.*
- **Sensitization:** *No sensitizing effect known.*

(Contd. on page 6)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.06.2013

Version number 4

Revision: 10.06.2013

Trade name: Special cleaner soft for CleanJet® and hand cleaning

(Contd. of page 5)

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

The product shows the following dangers according to the calculation method of Regulation (EC) No. 1272/2008 (CLP/GHS):

Skin Irrit. 2

Eye Irrit. 2

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

According to present knowledge no CMR-effects known.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) N° 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Water hazard class 1 (Self-assessment): slightly hazardous for water

· **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**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

· **Waste disposal key number:** According to local/national regulations.

· **European waste catalogue:**

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

· **Uncleaned packagings:**

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

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

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

Void

· **14.2 UN proper shipping name**

· **ADR, IMDG, IATA**

Void

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.06.2013

Version number 4

Revision: 10.06.2013

Trade name: Special cleaner soft for CleanJet® and hand cleaning

(Contd. of page 6)

· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	NO
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
- **Decree to be applied in case of technical fault:** Directive 96/82/EC does not apply.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly 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.

- **Reasons for changes:**
The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.
- **Relevant phrases**
The(se) R- resp. H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.
 - 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.
 - H400 Very toxic to aquatic life.
- R22 Harmful if swallowed.
- R35 Causes severe burns.
- R36/38 Irritating to eyes and skin.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R50 Very toxic to aquatic organisms.

(Contd. on page 8)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.06.2013

Version number 4

Revision: 10.06.2013

Trade name: Special cleaner soft for CleanJet® and hand cleaning

(Contd. of page 7)

· **Department issuing MSDS:**

C.S.B. GmbH
Düsseldorfer Str. 113
47809 Krefeld / Germany

Phone: +49 - 2151 - 652086-0
Fax: +49 - 2151 - 652086-9

· **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)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

GB