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Reviewed on 01/18/2011

**\* 1 Identification of the substance/mixture and of the company/undertaking**

- **Product identifier**
- **Trade name:** **HMK R55 Intensive Cleaner -acid free-**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Stone Care Product
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MÖLLER-CHEMIE Steinpflegemittel GmbH  
Ziegelalstrasse 2  
D-93346 IHRLERSTEIN  
Germany
- **Distributor:**  
ACI International  
3162 Pembroke Road  
Hallandale, FL 33009  
USA  
Tel: (954) 964-1658  
Fax: (954) 964-9277
- **Information department:** Infotrac
- **Emergency telephone number:**  
24 Hours Emergency  
Telephone Number: (800) 535-5053

**\* 2 Composition/information on ingredients**

- **Chemical characterization:** Mixtures
- **Description:**  
Cleansing agent  
Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**

111-76-2 2-butoxyethanol	<10.0%
GHS07 H302; H312; H332; H315; H319	
27323-41-7 Dodecylbenzolsulfonsäure, Verbindung mit 2,2',2''-Nitrilotriethanol	<5.0%
GHS06 H301	
Oxoalkoholethoxylate	<5.0%
GHS06 H301; GHS05 H318	

**\* 3 Hazards identification**

- **Classification of the substance or mixture**



GHS07

- H319 Causes serious eye irritation.
- H227 Combustible liquid.
- H313 May be harmful in contact with skin.
- H333 May be harmful if inhaled.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of international guidelines.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations according to directives on hazardous materials.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**  
Health = 0  
Fire = 2  
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  
Health = 0  
Fire = 2  
Reactivity = 0
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**\* 4 First aid measures**

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
- **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 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

**\* 6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

\* **7 Handling and storage**

- **Handling:**
  - **Precautions for safe handling** No special measures required.
  - **Information about protection against explosions and fires:** No special measures required.
  - **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:** Not required.
  - **Further information about storage conditions:** None.
  - **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 item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
  - III-76-2 2-butoxyethanol**  
PEL 240 mg/m<sup>3</sup>, 50 ppm  
Skin
  - REL 24 mg/m<sup>3</sup>, 5 ppm  
Skin
  - TLV 97 mg/m<sup>3</sup>, 20 ppm  
BEI
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
  - **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
  - **Breathing equipment:** Not required.
  - **Protection of hands:**  
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** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:** Goggles recommended during refilling.

\* **9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Fluid
  - Color: Colorless
  - Odor: Characteristic
  - Odour threshold: Not determined.
  - pH-value at 20°C (68°F): 8.5
- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 100°C (212°F)
- **Flash point:** 65°C (149°F)
- **Ignition temperature:** 240°C (464°F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapor pressure at 20°C (68°F):** 23 hPa (17 mm Hg)
- **Density at 20°C (68°F):** 1.018 g/cm<sup>3</sup> (8.495 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
  - Water: Fully miscible.
- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 12.2 %
  - Water: 80.8 %
  - VOC content: 12.2 %  
124.3 g/l / 1.04 lb/gl
- **Solids content:** 2.1 %
- **Other information** No further relevant information available.

**10 Stability and reactivity**

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

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- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**· **Information on toxicological effects**

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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 1 (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**\*14 Transport information**

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN "Model Regulation":** -
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

**\*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):**
- 111-42-2 2,2'-iminodiethanol
- **TSCA (Toxic Substances Control Act):**
- 7732-18-5 water, distilled, conductivity or of similar purity
- 111-76-2 2-butoxyethanol
- 27323-41-7 Dodecylbenzolsulfonsäure, Verbindung mit 2,2,2'-Nitrilotriethanol
- 7758-29-4 pentasodium triphosphate
- 111-42-2 2,2'-iminodiethanol
- 119-36-8 methyl salicylate
- 100-52-7 benzaldehyde
- 8008-51-3 Kampheröl weiss
- 101-86-0 Heksüülkaneelaldehyüd
- 8000-48-4 Eukalyptusöl Chin. 80/82%
- **Proposition 65**
- **Chemicals known to cause cancer:**
- None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:**
- None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**
- None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**
- None of the ingredients is listed.
- **Carcinogeny categories**
- **EPA (Environmental Protection Agency)**
- 111-76-2 2-butoxyethanol: CBD
- **IARC (International Agency for Research on Cancer)**
- 111-76-2 2-butoxyethanol: 3
- 111-42-2 2,2'-iminodiethanol: 3
- **NTP (National Toxicology Program)**
- None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)**
- 111-76-2 2-butoxyethanol: A3
- 111-42-2 2,2'-iminodiethanol: A3
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
- None of the ingredients is listed.

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- **OSHA-Ca (Occupational Safety & Health Administration)**  
None of the ingredients is listed.
- **Product related hazard informations:**  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations according to directives on hazardous materials.
- **National regulations:**
- **Class Share in %**
- **Wasser** 80.8
- **NK** 12.2
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**\*16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **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)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
ACGIH: American Conference of Governmental Industrial Hygienists  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)
- **\* Data compared to the previous version altered.**