

Date of issue: 13.09.2007 Replaces Data Sheet of : –

\*\*\* alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



**1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**1.1 Identification of Substance or Preparation**

Trade Name : Simple Green Limescale

Article No. : n.av.

Preparation No. : 72100

Registration No. : n.av.

**1.2 Use of the substance / preparation:**

Cleaning agent

**1.3 Company / Undertaking Identification**

**1.3.1 Address of the Company / Supplier:**

Simple Green AG European Operations, Hürdweg 10, CH- 8854 Galgenen

Telephone : +41-(0)55-460-1212, Fax : +41-(0)55-460-1210

**1.3.2 Responsible :**

Chemie & Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf; E-Mail: info@chemie-vorschrift.de

**1.4 Emergency - Telephone**

Information Centre Specialising in Symptoms of Poisoning

Telephone : +49 - 761 - 19 240

Emergency - Telephone of Company / Undertaking

Telephone : +41-(0)55-460-1212 (08:30 - 16:30)

**2 HAZARDS IDENTIFICATION**

**2.1 For Humans** (additional information is given under item 11) :

Irritating to eyes. May cause skin irritation in susceptible persons. Prolonged skin contact may defat the skin and produce dermatitis. Ingestion causes burns of the upper digestive and respiratory tracts.

**2.2 For the Environment :**

Ecological injuries are not known or expected under normal use.

Solutions with low pH-value must be neutralized before discharge.

**2.3 For Materials:**

None known.

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Chemical Characterisation:**

Aqueous surfactant solution.

**3.2 Dangerous Ingredients:**

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R - phrases
506-89-8	n.av.	208-059-6	Urea hydrochloride	5 - 10%	Xn	R 22-38-41
61788-90-7	n.av.	263-016-9	Amines, coco alkylidimethyl, N-oxides	1 - 5%	Xi, N	R 38-41-50
7681-11-0	n.av.	231-659-4	Potassium Iodide	0,1 - 1%	Xn	R 36/37-43-63

Remarks: Classification and labelling of a product is indicated under item 15.

**4 FIRST AID MEASURES**

**4.1 Inhalation:**

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

If symptoms persist, call a physician.

**4.2 Skin Contact :**

Wash off immediately with plenty of water.

Consult a physician if necessary.

**4.3 Eye Contact :**

Call a physician immediately.

Rinse thoroughly with plenty of water, also under the eyelids.

**4.4 Ingestion :**

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

Obtain medical attention.

**4.5 Note to Physician:**

Aspiration may cause pulmonary oedema and pneumonitis.

Treat symptomatically.

**4.6 Special Equipment:**

None.

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**5 FIRE FIGHTING MEASURES**

- 5.1 **Suitable Extinguishing Media :** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.
- 5.2 **Extinguishing Media to Avoid :** high volume water jet.
- 5.3 **Fire and Explosion Hazards :**  
In the event of fire carbon oxides, nitrogen oxides (NO<sub>x</sub>) may be formed.
- 5.4 **Special Protective Equipment :**  
Wear positive pressure self-contained breathing apparatus.  
Wear full protective clothing.
- 5.5 **Additional Information :**  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**6 ACCIDENTAL RELEASE MEASURES**

- 6.1 **Personal Precautions :**  
See No. 8.3 Personal Protective Equipment.  
Contaminated surfaces will be extremely slippery.
- 6.2 **Environmental Precautions and Methods for Cleaning up :**  
Do not allow material to contaminate ground water system. Do not contaminate surface water. Local authorities should be advised if significant spillages cannot be contained. Soak up with inert absorbent material (e.g. sand, universal binder, sawdust).  
Dispose of in compliance with local regulations. (Teil2)
- 6.3 **Further Information :** None.

**7 HANDLING AND STORAGE (For national regulations refer to item 15.2)**

- 7.1 **Handling**
  - 7.1.1 **Precautions for Safe Handling :**  
Keep container tightly closed. Ensure adequate ventilation.
  - 7.1.2 **Precautions in Case of Fire and Explosion :**  
Keep away from sources of ignition - No smoking.
- 7.2 **Storage**
  - 7.2.1 **Storage Instructions :**  
Keep in an area equipped with acid resistant flooring. Eye wash bottle with pure water
  - 7.2.2 **Store away from :**  
Do not store together with oxidizing agents.
  - 7.2.3 **Further Information on Storage Conditions :**  
Protect against freezing.
- 7.3 **Specific use(s):** n.av.

**8 Exposure Controls and Personal Protection**

- 8.1 **Exposure limit values:**

<b>Material</b>	<b>Limit Value :</b>
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- 8.2 **Exposure controls**
  - 8.2.1 **Occupational exposure controls:**  
Avoid contact with the skin and the eyes. When using, do not eat, drink or smoke.  
Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.
  - 8.2.1a **Respiratory Protection :** Breathing apparatus needed only when aerosol or mist is formed.
  - 8.2.1b **Hand Protection :** Protective gloves
  - 8.2.1c **Eye Protection :** Tightly fitting safety goggles
  - 8.2.1d **Skin Protection :** No.
  - 8.2.1e **Further Information :** Refer to special restrictions in wearing protective equipment
  - 8.2.2 **Environmental exposure controls** n.av.

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9.2.1 pH-value, undiluted : 1 - 1,5, pH-value, 1% aqueous solution : n.av.

9.2.2 Boiling point / Boiling - range (°C) : ~ 100, Melting point / Melting range (°C) : ~ 0

9.2.3 Flash point (°C, c.c.) : n.ap.

9.2.4 Flammability (EEC A10/A13) : No.

9.2.5 Ignition temperature (°C) : n.ap.

9.2.6 Autoflammability (EEC A16) : No.

9.2.7 Oxidising properties : No.

9.2.8 Explosion hazard : No.

9.2.9 Explosion limits (Vol.%) lower : n.av., upper : n.av.

9.2.10 Vapour pressure : n.av.

9.2.11 Density (g/ml) : 1,023

9.2.12 Solubility (in Water) : miscible

9.2.13 Partition coefficient, n-Octano/Water : n.av.

9.2.14 Viscosity : n.ap.

9.2.15 Solvent separation test : n.av.

9.2.16 Solvent content (m %) : n.ap.

**9.3 Other information**

9.3.1 Thermal decomposition (°C) : n.av.

9.3.2 Vapour density (Air = 1) : n.av.

9.3.3 Evaporation rate : n.av.

**10 STABILITY AND REACTIVITY****10.1 Conditions to Avoid :**

No hazards to be specially mentioned.

**10.2 Materials to Avoid :**

Strong oxidizing agents.

**10.3 Hazardous Decomposition Products :**

No dangerous reaction known under conditions of normal use.

**10.4 Further Information :**

None.

**11 TOXICOLOGICAL INFORMATION****11.1 Toxicological Tests :****11.1.1 Acute Health Effects :**Inhalation, LC<sub>50</sub> rat, (mg/l/4h) : n.av.Ingestion, LD<sub>50</sub> rat, (mg/kg) : n.av.Skin - contact, LD<sub>50</sub> rat, (mg/kg) : n.av.

Irritation (to skin / eye) : Irritating to eyes.

Sensitisation : May cause sensitization of susceptible persons by skin contact.

**11.1.2 Subacute / Chronic Toxicity :**

Carcinogenicity : None.

Mutagenicity : n.av.

Teratogenicity : n.av.

Narcotic Effects : No.

**11.2 Practical Experience****11.2.1 Observations relevant for classification :**

None.

**11.2.2 Further Observations :**

Prolonged skin contact may defat the skin and produce dermatitis.

**11.3 General Remarks :**

Classification of the preparation has been done by calculation in accordance with EEC directives.

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**12 ECOLOGICAL INFORMATION**

- 12.1 **Ecotoxicity :**  
Ecological injuries are not known or expected under normal use.
- 12.2 **Mobility :**  
n.av.
- 12.3 **Persistence and degradability:**  
The surfactant components are more than 90% biodegradable.  
Biological degradability .99% / 14 d (OECD 302 B).
- 12.4 **Bioaccumulative potential:**  
n.av.
- 12.5 **Results of PBT assessment**  
n.av.
- 12.6 **Other adverse effects**
- 12.6.1 COD-Value, mg/g : n.av.
- 12.6.2 BOD<sub>5</sub>-Value, mg/g : n.av.
- 12.6.3 AOX-Remarks : n.av.
- 12.6.4 Significant Components : n.av.
- 12.6.5 Other adverse effects : None.

**13 DISPOSAL CONSIDERATIONS** (For national Regulations refer to item 15.)

- 13.1 **Residues**
- 13.1.1 Recommendation : D 10 / R2 Waste - Code - No. : 20 01 29  
In addition comply with the regional authorities.
- 13.1.2 Safe Handling: See item 7 and 15.
- 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.

**14 TRANSPORT INFORMATION**

- 14.1 **Transportation by Road or Railway according to ADR and RID**  
  
**Remarks : Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.**  
**Name and Description:**  

Class :	UN - No :	Risklabel:
Classification Code:	Packing Group :	Hazard-No.:
Transport-category:	Limited Quantity:	
- 14.2 **Classification for Transportation by Inland-Navigation according to ADNO**  
**Remarks : Classification has not been done.**  
 Class : Division : Category :
- 14.2.1 **Description of Goods :**
- 14.2.2 **Remarks :**
- 14.3 **Classification for Transportation by Vessels according to IMDG**  
**Remarks : Not a dangerous substance as defined in the above regulations.**  

Class :	UN-No. :	Packing Group :
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- 14.3.1 **EmS-No. :**
- 14.3.2 **Marine Pollutant :**
- 14.3.3 **Instruction for Declaration and Labelling :**  
**Proper Shipping Name :**  
**Risk Label :**
- 14.3.4 **Remarks :**

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**14.4 Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI**

**Remarks : Not a dangerous substance as defined in the above regulations.**

Class : UN-No. : Packing Group :

**14.4.1 Instruction for Declaration and Labelling :**

**Proper Shipping Name :**

**Risk Label :**

Packing Instructions, Passenger : Cargo :

**14.4.2 Remarks :**

**15 REGULATORY INFORMATION**

**15.1 Classification according to EEC-Regulations :**

Classification required by EEC : Yes.

Hazard Identification : Irritant

Component(s) :

Applicable Exemptions : Yes.

Hazard Symbol(s) :



**R-Phrases :**

R 36 - Irritating to eyes.

**S-Phrases :**

S 2 - Keep out of the reach of children.

S 24 - Avoid contact with skin.

S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 46 - If swallowed, seek medical advice immediately and show this container or label.

**Additional Markings :**

Contains Potassium Iodide. May produce an allergic reaction.

**15.1.1 The above mentioned labelling is valid for distribution to public use.**

Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

**15.2 National Regulations**

VOC-Content: n.av.

**16 OTHER INFORMATION**

**Text of R phrases mentioned in Section 3**

R 22: Harmful if swallowed.

R 36/37: Irritating to eyes and respiratory system.

R 38: Irritating to skin.

R 41: Risk of serious damage to eyes.

R 43: May cause sensitization by skin contact.

R 50: Very toxic to aquatic organisms.

R 63: Possible risk of harm to the unborn child.

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.

Prepared by : Chemie & Vorschrift, Kannheideweg 35, D-53123 Bonn-Duisdorf, ☎ +49-228-74 81 824

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