

1 Product and suppliers identification

1.1 Product name **Simple Green
GRAFFITI REMOVER**

1.2 Producer / distributor: **Simple Green AG European Operations Hürdweg 10 CH-8854 Galgenen**

Phone **+41 055 460 1212**
 Fax **+41 055 460 1210**

Emergency phone **Swiss Toxicology Information Center, Zürich
 +41 (0)1 251 5151**

2 Composition of the Product

Ingredients	CAS-Nr	Content	R -sentences	S - sentences
2-Methoxy-methylethoxy-propanol	34590-94-8	> 30 %	0	
n-Methyl-2-pyrrolidon	872-50-4	20-30 %	Xi 36-38	2- 41
1-Methoxy-2-propanol	107-98-2	20-30 %	10	24
D-Limonen	5989-27-5	< 5 %	Xi, N 10-38-43-50/53	2-24-37-60-61

3 Hazards identification

3.1 Hazard description:



Xi Irritant

3.2 Information pertaining to particular dangers for man and environment

R 10 Flammable
R 36/38 Irritant for eyes and skin

4 First Aid Measures

4.1 General Information

Rinse with plenty of water

4.2 After inhalation

**Supply fresh air. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.**

4.3 After skin contact

Immediately wash with water and soap and rinse thoroughly.

4.4 After eye contact

Rinse opened eyes for several minutes under running water.

4.5 After swallowing

**Rinse out mouth and then drink plenty of water.
Avoid vomiting and consult a doctor.**

5 Fire Fighting Measures

5.1 suitable extinguishing a

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 For safety reasons unsuitable extinguishing agents

Water with full jet.

5.3 Special hazards caused by the material, its products of combustion or resulting gases

May form dangerous gazes: Carbon monoxyde (CO)

5.4 Special requirement for fire-fighting equipment

Wear self-contained respiatory protective device.

6 Accidental Release Measures

6.1 Person-related safety precautions:

**Change immediatley contaminated cloth.
Watch for good ventilation.
Keep off non-protected persons.**

6.2 Precautionary measures for environment

Do not allow to enter sewers / surface or ground water.

6.3 Procedures for cleaning / waste disposal

**Absorb liquid components with liquid-binding material.
Dispose of the material collected according to regulations.**

7 Safe Handling and Storage

7.1 Handling

Watch for good ventilation.

7.2 Fire protection

Keep away from heat and sources of ignition.

7.3 Warehousing conditions

Store in cool, dry conditions in well sealed receptacles.

7.4 Information about storage in one common storage facility

Not required.

7.5 Warehousing /storage class:

VbF - Class: A III

8 Exposition Limits and Personal Protection

8.1 Technical Precautionary Measures

None

8.2 Respiratory Protection

Look for good ventilation.

8.3 Skin Protection

Wear reasonable gloves, if prolonged contact with product or its solutions may be necessary.

8.4 Eye Protection

Avoid contact with eyes. Reasonable eye protection should always be used.

8.5 Full Body Protection

Remove contaminated clothing immediately and wash skin below with plenty of water.

8.6 Hygienic advises

Do not smoke, drink or eat as you work with the products. Wash your hands after finishing the job.

8.7 Exposure Limits and other requirements

MAK-Werte:	Ingredients		Simple Green
	ml /m3	ppm	mg / m3 (calc.)
2-Methoxy-methylethoxy-propanol	50	300	300
n-Methyl-2-pyrrolidon	100	400	
1-Methoxy-2-propanol	100	360	
D-Limonen	n.e	n.e.	

9 Physical and Chemical Description / Properties

9.1 Appearance			Liquid
9.2 Colour			Colourless
9.3 Odor			aromatic - orange / lemon
9.4 Change of condition	liquid / solid	DIN 51761	- 70°C
9.5	boiling point	DIN 51761	120°C - 200°C
9.6 Density		DIN 51757	0.965 gr/cm3
9.7 Vapor pressure		DIN 51754	0.39 hpa (20°C)
9.8 Viscosity		DIN 51550	< 5 mPas
9.9 Solubility	in water		100 %
	in acetone		n.e.
	100%ig		n.e.
9.1 pH	10%ig		4,0 - 5,0
	1%ig		n.e.
	9.11 Coefficient: n-octanol / water		n.e.
9.12 Flash point		DIN 51755	55°C - 75°C
9.13 Autoignition temperature		DIN 51794	210°C
9.14 Explosure limits	lower		1,3 Vol %
	upper		14 Vol %
9.15 Vapor density			n.e.
9.16 Volatile Organic Compounds			100,0 % = 965gr/Liter
9.17 VOC Partial pressure			n.e.

10 Stability and Reactivity

10.1 Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.2 Dangerous reactions

**Possible formation of peroxide
 Reacts with oxidizing agents
 Reacts with acids**

10.3 Dangerous products of decomposition

**No dangerous decomposition products known.
 Carbon monoxide (CO)**

11 Toxicity

11.1 Acute Mortality Studies DL50 acute oral > 5000 mg/kg (calc.)
DL50 acute dermal > 9500 mg/kg (calc.)

11.2 Primary irritant effect

Irritant for eyes and skin, and mucouse membrans

11.3 Sensibilisation

No sensitizing effects known.

11.4 Additional toxicological information

**Danger through skin adsorption.
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.**

12 Environmental Toxicity

12.1 Mobility

Completely soluble in water.

12.2 Persistence and Biodegradability

97,5% in 14 Tagen, 99,9% in 28 Tagen: Oecd 302 B-Test DOC-Analytik

12.3 Potential of Bioaccumulation

No relevant datas available

12.4 General notes

**Water hazard class 1 (German Regulation) (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.**

13 disposal considerations

13.1 Product

**Must not be disposed of together with household garbage.
Do not allow product to reach sewage system.**

13.3 Packaging materials

Wash containers with water - they may be recycled or applied to other uses.

14 Transport information

14.1 Land transport ADR/RID (cross-border)

ADR/RID class		NO DANGEROUS GOODS
Item		
Danger code (Kemler)		
UN-Number		
Label		
Description of goods		

14.2 Maritime transport IDMG

IMDG Class		n.e.
Page		
UN-Number		
Packaging group		
EMS Number		
MFAG		
Marine pollutant		
Propper shipping name		


14.3 Air transport ICAO-TI and IATA-DGR

ICAO/IATA-Class		n.e.
UN/ID-Number		
Packaging group		
Propper shipping name		

15 Regulations

15.1 Markings according to EU guidelines

The product has been classified and marked in accordance with EU directives / ordinance on Hazardous Materials

Code letter and hazard designation of product	Xi 	Xi Irritant
Risk phrases	10 36/38	Flammable Irritant for skin and eyes.
Safety phrases	2 24 41	Keep out of reach of children. Avoid contact with skin. Do not breath combusting gazes.

15.2 Nationale Vorschriften

Austria (AT)	ÖBIG-Vergiftungsinformationszentrale 24-h Notruf-Nummer: +43 1 151 61
Switzerland (CH)	BAG T Nr. 611500 - No subject to a classification
Germany (D)	UBA Nr. 3251 0009

16 Other Information

16.1 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.

16.2 Changes are marked with a black bar on the right side

Est.:	Rolf Schmidhäuser	28.11.02
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