

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : SHADOW G  
Revision date : 02.12.2014  
Print date : 2015-03-04

Version (Revision) : 4.0.1 (4.0.0)

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

**1.1 Product identifier**

SHADOW G (GE-005)

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Washing and cleaning products (including solvent based products)

**1.3 Details of the supplier of the safety data sheet**

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

Guard KG

**Street :** Berta-Cramer-Ring 26

**Postal code/city :** D- 65205 Wiesbaden

**Telephone :** +49 6122 70463-16

**Telefax :** +49 6122 70463-29

**Information contact :** info@graffiti-guard.net

**1.4 Emergency telephone number**

Assistance in German: Telephone: + 49 (0) 6122 7046316 (office hours: Monday-Friday 9:00 to 15). Outside office hours: call a Poison Center or doctor/physician.

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Skin Corr. 1A ; H314 - Skin corrosion/irritation : Category 1A ; Causes severe skin burns and eye damage.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

**2.2 Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



Flame (GHS02) · Corrosion (GHS05) · Exclamation mark (GHS07)

**Signal word**

Danger

**Hazard components for labelling**

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

**Hazard statements**

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : SHADOW REMOVER  
Revision date : 02.12.2014  
Print date : 2015-03-04

Version (Revision) : 4.0.1 (4.0.0)

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/....  
P321 Specific treatment (see instructions on this label).  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Disposal of contents/container in accordance with local, state or national legislation.

## 2.3 Other hazards

None

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

2-(2-BUTOXYETHOXY)ETHANOL ; REACH registration No. : 01-2119475104-44 ; EC No. : 203-961-6; CAS No. : 112-34-5

Weight fraction : 50 - 100 %  
Classification 67/548/EEC : Xi ; R36  
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36 ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : 20 - 25 %  
Classification 67/548/EEC : Xn ; R20/21/22 Xi ; R36/38  
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

POTASSIUM HYDROXIDE ; REACH registration No. : 01-2119487136-33 ; EC No. : 215-181-3; CAS No. : 1310-58-3

Weight fraction : 2,5 - 5 %  
Classification 67/548/EEC : C ; R35 Xn ; R22  
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

BENZYL ALCOHOL ; REACH registration No. : 01-2119492630-38 ; EC No. : 202-859-9; CAS No. : 100-51-6

Weight fraction : 2,5 - 5 %  
Classification 67/548/EEC : Xn ; R20/22  
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332

1-METHOXY-2-PROPANOL ; REACH registration No. : 01-2119457435-35 ; EC No. : 203-539-1; CAS No. : 107-98-2

Weight fraction : 2,5 - 5 %  
Classification 67/548/EEC : R10 R67  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; REACH registration No. : 01-2119488154-34 ; EC No. : 231-668-3; CAS No. : 7681-52-9

Weight fraction : < 0,5 %  
Classification 67/548/EEC : N ; R50 R31 C ; R34  
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400

#### Additional information

Full text of R-, H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

#### In case of skin contact

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** SHADOW G  
**Revision date :** 02.12.2014  
**Print date :** 2015-03-04

**Version (Revision) :** 4.0.1 (4.0.0)

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvent cleaners.

**After eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

None

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam Carbon dioxide (CO2) Extinguishing powder Sand Water mist

**Unsuitable extinguishing media**

Strong water jet

**5.2 Special hazards arising from the substance or mixture**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses. Use suitable breathing apparatus.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

**Protective equipment**

Use personal protection equipment. Provide adequate ventilation. Remove all sources of ignition.

**6.2 Environmental precautions**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3 Methods and material for containment and cleaning up**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean with detergents. Avoid solvent cleaners.

**6.4 Reference to other sections**

Refer to protective measures listed in sections 7 and 8.

**SECTION 7: Handling and storage**



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : SHADOW G  
Revision date : 02.12.2014  
Print date : 2015-03-04

Version (Revision) : 4.0.1 (4.0.0)

## 7.1 Precautions for safe handling

Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Heating causes rise in pressure with risk of bursting. Provide earthing of containers, equipment, pumps and ventilation facilities. Avoid contact with skin and eyes. Inhalation of dust/particles Generation/formation of mist When using do not eat, drink, smoke, sniff.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Protect containers against damage. Keep only in the original container in a cool, well-ventilated place. Do not allow to enter into surface water or drains.

### Requirements for storage rooms and vessels

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Remove all sources of ignition.

### Further information on storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Only use containers specifically approved for the substance/product. Store between +5 and 35 °C in a dry, well ventilated place away from sources of heat and direct sunlight.

## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection



## 8.1 Control parameters

### Occupational exposure limit values

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type (country of origin) : STEL ( EC )  
Limit value : 15 ppm / 101,2 mg/m<sup>3</sup>  
Version : 2006-02-07

Limit value type (country of origin) : TWA ( EC )  
Limit value : 10 ppm / 67,5 mg/m<sup>3</sup>  
Version : 2006-02-07

Limit value type (country of origin) : Exposure Limit (8h) ( NL )  
Limit value : 50 mg/m<sup>3</sup>  
Remark : H  
Version : 2007-01-01

Limit value type (country of origin) : Exposure Limit (15min) ( NL )  
Limit value : 100 mg/m<sup>3</sup>  
Remark : H  
Version : 2007-01-01

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 246 mg/m<sup>3</sup>  
Remark : H  
Version : 2000-06-08

Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 98 mg/m<sup>3</sup>  
Remark : H  
Version : 2000-06-08

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** SHADOW G  
**Revision date :** 02.12.2014  
**Print date :** 2015-03-04

**Version (Revision) :** 4.0.1 (4.0.0)

Limit value type (country of origin) : Exposure Limit (8h) ( NL )  
Limit value : 100 mg/m<sup>3</sup>  
Remark : H  
Version : 2007-01-01  
Limit value type (country of origin) : Exposure Limit (15min) ( NL )  
Limit value : 246 mg/m<sup>3</sup>  
Remark : H  
Version : 2007-01-01  
1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 150 ppm / 568 mg/m<sup>3</sup>  
Remark : H  
Version : 2000-06-08  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 100 ppm / 375 mg/m<sup>3</sup>  
Remark : H  
Version : 2000-06-08  
Limit value type (country of origin) : Exposure Limit (8h) ( NL )  
Limit value : 375 mg/m<sup>3</sup>  
Remark : H  
Version : 2007-01-01  
Limit value type (country of origin) : Exposure Limit (15min) ( NL )  
Limit value : 563 mg/m<sup>3</sup>  
Remark : H  
Version : 2007-01-01

**DNEL/DMEL and PNEC values**

**DNEL/DMEL**

Limit value type : DNEL Consumer (local) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 34 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (local) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 50,6 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 34 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 10 mg/kg  
Safety factor : 200  
Limit value type : DNEL Consumer (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 1,25 mg/kg  
Safety factor : 200  
Limit value type : DNEL worker (local) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 101,2 mg/m<sup>3</sup>

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** SHADOW G  
**Revision date :** 02.12.2014  
**Print date :** 2015-03-04

**Version (Revision) :** 4.0.1 (4.0.0)

---

Limit value type : DNEL worker (local) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 67,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 67,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 20 mg/kg  
Safety factor : 100

Limit value type : DNEL Consumer (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 43,9 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 18,1 mg/kg

Limit value type : DNEL Consumer (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 3,3 mg/kg

Limit value type : DNEL worker (local) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 553,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 369 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 50,6 mg/kg

**PNEC**

Limit value type : PNEC aquatic, freshwater ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 1 mg/l  
Safety factor : 100

Limit value type : PNEC aquatic, intermittent release ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 3,9 mg/l  
Safety factor : 100

Limit value type : PNEC aquatic, marine water ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 0,1 mg/l  
Safety factor : 1000

Limit value type : PNEC sediment, freshwater ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 4 mg/kg

Limit value type : PNEC sediment, marine water ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 0,4 mg/kg

Limit value type : PNEC soil, freshwater ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )  
Limit value : 0,4 mg/kg

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** SHADOW G  
**Revision date :** 02.12.2014  
**Print date :** 2015-03-04

**Version (Revision) :** 4.0.1 (4.0.0)

Limit value type :	PNEC Secondary Poisoning ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )
Limit value :	56 mg/kg
Safety factor :	90
Limit value type :	PNEC sewage treatment plant (STP) ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )
Limit value :	200 mg/l
Safety factor :	10
Limit value type :	PNEC aquatic, freshwater ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Water (Including sewage plant)
Exposure time :	Long-term (continuous)
Limit value :	10 mg/l
Limit value type :	PNEC aquatic, intermittent release ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Water (Including sewage plant)
Exposure time :	Short-term (single)
Limit value :	100 mg/l
Limit value type :	PNEC aquatic, marine water ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Water (Including sewage plant)
Exposure time :	Long-term (continuous)
Limit value :	1 mg/l
Limit value type :	PNEC sediment, freshwater ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Water (Including sewage plant)
Exposure time :	Long-term (continuous)
Limit value :	52,3 mg/kg
Limit value type :	PNEC sediment, marine water ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Water (Including sewage plant)
Exposure time :	Long-term (continuous)
Limit value :	5,2 mg/kg
Limit value type :	PNEC soil, freshwater ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Soil
Exposure time :	Long-term (continuous)
Limit value :	5,49 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Water (Including sewage plant)
Exposure time :	Long-term (continuous)
Limit value :	100 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### Personal protection equipment

#### Eye/face protection

Eye glasses with side protection

#### Skin protection

##### Hand protection

Solvent-resistant protective gloves must be worn. Wear suitable gloves tested to EN374. Breakthrough time (maximum wearing time)

**Suitable gloves type :** Disposable gloves.

**Suitable material :** NR (natural rubber, natural latex)

**Required properties :** liquid-tight.

**Breakthrough time (maximum wearing time) :** > 60 min

**Thickness of the glove material :** > 0,5 mm

**Recommended glove articles :** DIN EN 374

##### Body protection

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : SHADOW G  
Revision date : 02.12.2014  
Print date : 2015-03-04

Version (Revision) : 4.0.1 (4.0.0)

**Suitable protective clothing** : Overall  
**Recommended material** : Natural fibres (e.g. cotton)

## Respiratory protection

Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits:  
P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter:  
up to a max. of

## 8.3 Additional information

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance** : liquid

#### Safety relevant basis data

<b>Physical state</b> :		liquid	
<b>Melting point/melting range</b> :	( 1013 hPa )	No data available	
<b>Initial boiling point and boiling range</b> :	( 1013 hPa )	No data available	
<b>Decomposition temperature</b> :	( 1013 hPa )	No data available	
<b>Flash point</b> :		32	°C
<b>Ignition temperature</b> :		No data available	
<b>Lower explosion limit</b> :		No data available	
<b>Upper explosion limit</b> :		No data available	
<b>Vapour pressure</b> :	( 20 °C )	0,1	hPa
<b>Relative density</b> :	( 20 °C )	0,97	(Water = 1)
<b>Water solubility</b> :	( 20 °C )	soluble	
<b>Fat solubility</b> :	( 20 °C )	No data available.	
<b>PH</b> :		14	
<b>log P O/W</b> :		No data available	
<b>Solvent content</b> :		94	Wt %
<b>Odour threshold</b> :		No data available	
<b>Evaporation rate</b> :		No data available	
<b>Application/surface</b> :			
<b>Colour</b> :		various colours	
<b>Odour</b> :		characteristic	
<b>Solid content</b> :		4,6	Wt %
<b>Density</b> :	( 20 °C )	0,97	g/cm <sup>3</sup>
<b>Viscosity</b> :	( 20 °C )	<	100 mPa.s NEN-ISO 2884
<b>Explosive properties</b> :	No data available.		

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

No information available.

### 10.3 Possibility of hazardous reactions

No information available.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** SHADOW G  
**Revision date :** 02.12.2014  
**Print date :** 2015-03-04

**Version (Revision) :** 4.0.1 (4.0.0)

#### 10.4 Conditions to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

#### 10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

#### 10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute effects

###### Acute oral toxicity

Parameter :	LD50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )
Exposure route :	Oral
Species :	Rat
Effective dose :	6580 mg/kg
Parameter :	LD50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1746 mg/kg
Method :	OECD 401
Parameter :	LD50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1230 mg/kg
Parameter :	LD50 ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	365 mg/kg
Parameter :	LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5660 mg/kg
Parameter :	LD50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Oral
Species :	Mouse
Effective dose :	1600 mg/kg

###### Acute dermal toxicity

Parameter :	LD50 ( 2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	4120 mg/kg
Parameter :	LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	9999,99 mg/kg

###### Acute inhalation toxicity

Parameter :	LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	500 ppm

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** SHADOW G  
**Revision date :** 02.12.2014  
**Print date :** 2015-03-04

**Version (Revision) :** 4.0.1 (4.0.0)

Parameter : LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 700 ppm  
Parameter : LC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 1000 ppm  
Exposure time : 8 h

## SECTION 12: Ecological information

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

## SECTION 14: Transport information

### 14.1 UN number

UN 2920

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

CORROSIVE LIQUID, FLAMMABLE, N.O.S. ( POTASSIUM HYDROXIDE · 1-METHOXY-2-PROPANOL )

#### Sea transport (IMDG)

CORROSIVE LIQUID, FLAMMABLE, N.O.S. ( POTASSIUM HYDROXIDE · 1-METHOXY-2-PROPANOL )

#### Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, FLAMMABLE, N.O.S. ( POTASSIUM HYDROXIDE · 1-METHOXY-2-PROPANOL )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 8

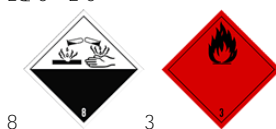
**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : SHADOW G  
Revision date : 02.12.2014  
Print date : 2015-03-04

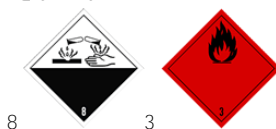
Version (Revision) : 4.0.1 (4.0.0)

Classification code : CF1  
Hazard identification number (Kemler No.) : 883  
Tunnel restriction code : D/E  
Special provisions : LQ 0 · E 0  
Hazard label(s) :



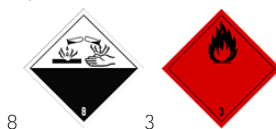
**Sea transport (IMDG)**

Class(es) : 8  
EmS-No. : F-E / S-C  
Special provisions : LQ 0 · E 0  
Hazard label(s) :



**Air transport (ICAO-TI / IATA-DGR)**

Class(es) : 8 / 3  
Special provisions : E 0  
Hazard label(s) :



**14.4 Packing group**

I

**14.5 Environmental hazards**

Land transport (ADR/RID) : No  
Sea transport (IMDG) : No  
Air transport (ICAO-TI / IATA-DGR) : No

**14.6 Special precautions for user**

None

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

**Other regulations (EU)**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**Labelling for contents according to regulation (EC) No. 648/2004**

Non-ionic surfactants	< 5	%
Benzyl alcohol	< 5	%
chlorine-based bleaching agents	< 5	%

**15.2 Chemical Safety Assessment**

No information available.

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**



**Trade name :** SHADOW G  
**Revision date :** 02.12.2014  
**Print date :** 2015-03-04

**Version (Revision) :** 4.0.1 (4.0.0)

## SECTION 16: Other information

### 16.1 Indication of changes

14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR)

### 16.2 Abbreviations and acronyms

a.i. = Active ingredient  
ACGIH = American Conference of Governmental Industrial Hygienists (US)  
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
AFFF = Aqueous Film Forming Foam  
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)  
AOAC = AOAC International (formerly Association of Official Analytical Chemists)  
aq. = Aqueous  
ASTM = American Society of Testing and Materials (US)  
atm = Atmosphere(s)  
B.V. = Beperkt Vennootschap (Limited)  
BCF = Bioconcentration Factor  
bp = Boiling point at stated pressure  
bw = Body weight  
ca = (Circa) about  
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)  
CEFIC = European Chemical Industry Council (established 1972)  
CIPAC = Collaborative International Pesticides Analytical Council  
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Conc = Concentration  
cP = CentiPoise  
cSt = Centistokes  
d = Day(s)  
DIN = Deutsches Institut für Normung e.V.  
DNEL = Derived No-Effect Level  
DT50 = Time for 50% loss; half-life  
EbC50 = Median effective concentration (biomass, e.g. of algae)  
EC = European Community; European Commission  
EC50 = Median effective concentration  
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)  
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)  
ErC50 = Median effective concentration (growth rate, e.g. of algae)  
EU = European Union  
EWC = European Waste Catalogue  
FAO = Food and Agriculture Organization (United Nations)  
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)  
h = Hour(s)  
hPa = HectoPascal (unit of pressure)  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Concentration that produces 50% inhibition  
IMDG Code = International Maritime Dangerous Goods Code  
IMO = International Maritime Organization  
ISO = International Organization for Standardization  
IUCLID = International Uniform Chemical Information Database  
IUPAC = International Union of Pure and Applied Chemistry  
kg = Kilogram  
Kow = Distribution coefficient between n-octanol and water  
kPa = KiloPascal (unit of pressure)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** SHADOW G  
**Revision date :** 02.12.2014  
**Print date :** 2015-03-04

**Version (Revision) :** 4.0.1 (4.0.0)

LC50 = Concentration required to kill 50% of test organisms  
LD50 = Dose required to kill 50% of test organisms  
LEL = Lower Explosive Limit/Lower Explosion Limit  
LOAEL = Lowest observed adverse effect level  
mg = Milligram  
min = Minute(s)  
ml = Milliliter  
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)  
mp = Melting point  
MRL = Maximum Residue Limit  
MSDS = Material Safety Data Sheet  
n.o.s. = Not Otherwise Specified  
NIOSH = National Institute for Occupational Safety and Health (US)  
NOAEL = No Observed Adverse Effect Level  
NOEC = No observed effect concentration  
NOEL = No Observable Effect Level  
NOx = Oxides of Nitrogen  
OECD = Organization for Economic Cooperation and Development  
OEL = Occupational Exposure Limits  
Pa = Pascal (unit of pressure)  
PBT = Persistent, Bioaccumulative or Toxic  
pH = -log<sub>10</sub> hydrogen ion concentration  
pKa = -log<sub>10</sub> acid dissociation constant  
PNEC = Previsible Non Effect Concentration  
POPs = Persistent Organic Pollutants  
ppb = Parts per billion  
PPE = Personal Protection Equipment  
ppm = Parts per million  
ppt = Parts per trillion  
PVC = Polyvinyl Chloride  
QSAR = Quantitative Structure-Activity Relationship  
REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP)  
SI = International System of Units  
STEL = Short-Term Exposure Limit  
tech. = Technical grade  
TSCA = Toxic Substances Control Act (US)  
TWA = Time-Weighted Average  
vPvB = Very Persistent and Very Bioaccumulative  
WHO = World Health Organization = OMS  
y = Year(s)

## 16.3 Key literature references and sources for data

None

## 16.5 Relevant R-, H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
R10	Flammable.

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



**Graffiti-Guard**  
Anti-Graffiti-System

**Trade name :** SHADOW G  
**Revision date :** 02.12.2014  
**Print date :** 2015-03-04

**Version (Revision) :** 4.0.1 (4.0.0)

---

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R34	Causes burns.
R35	Causes severe burns.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R50	Very toxic to aquatic organisms.
R67	Vapours may cause drowsiness and dizziness.

**16.6 Training advice**

None

**16.7 Additional information**

None

---

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

---