

Trade name: Floralife® Blattglanz

Product no.: 10.013-01

Version: 1.0.0 / GB

Status: 26.11.2003

**1.) Identification of the substance/preparation and company**

**Product details**

Trade name

**Floralife® Blattglanz**

Use

Leafshine

**Identification of the manufacturer / supplier**

Address

Floralife Europe GmbH  
Corneliusplatz 2  
D-47918 Tönisvorst

Telephone no. +49 (0)2151 93 4040

Fax no. +49 (0)2151 93 404-10

**Emergency telephone number**

0049-(0)6131-19240

**2.) Composition / information on ingredients**

**Hazardous ingredients**

**PROPANE**

EC no.	200-827-9	Index no.	601-003-00-5	CAS no.	74-98-6
Concentration	> 10	<	30	%-b.w.	
Classification	F+; R12				
Hazard symbols	F+	R phrases	12		

**BUTANE**

EC no.	203-448-7	Index no.	601-004-00-0	CAS no.	106-97-8
Concentration	> 1	<	5	%-b.w.	
Classification	F+; R12				
Hazard symbols	F+	R phrases	12		

**ISOBUTANE**

EC no.	200-857-2	Index no.	601-004-00-0	CAS no.	75-28-5
Concentration	> 10	<	30	%-b.w.	
Classification	F+; R12				
Hazard symbols	F+	R phrases	12		

**PROPAN-2-OL**

EC no.	200-661-7	Index no.	603-117-00-0	CAS no.	67-63-0
Concentration	> 5	<	10	%-b.w.	
Classification	F; R11 Xi; R36 R67				
Hazard symbols	F, Xi	R phrases	11-36-67		

**NAPHTHA (PETROLEUM), HYDROTREATED HEAVY**

EC no.	265-150-3	Index no.	649-327-00-6	CAS no.	64742-48-9
Concentration	> 10	<	20	%-b.w.	
Classification	Xn; R65 R66				
Hazard symbols	Xn	R phrases	65-66		

**Alkanes, C9-12-iso**

EC no.	292-459-0	Index no.	-	CAS no.	90622-57-4
Concentration	> 10	<	25	%-b.w.	
Classification	R10 Xn; R65 R66 R53				
Hazard symbols	Xn	R phrases	10-53-65-66		

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### 3.) Hazards identification

**Classification**

F+; R12                      Extremely flammable  
R66                              Repeated exposure may cause skin dryness or cracking.

**Hazard symbols**

F+                              Extremely flammable

**R phrases**

12                              Extremely flammable  
66                              Repeated exposure may cause skin dryness or cracking.

**Particular information pertaining specific risk for human / environment**

During and after use possible formation of combustibile mixture with solvents.

### 4.) First aid measures

**General information**

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**After inhalation**

Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.

**After skin contact**

Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners !

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

**After ingestion**

Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person. Keep at rest.

### 5.) Fire-fighting measures

**Suitable extinguishing media**

Alcohol resistant foam, CO2, powders, water spray

**Extinguishing media that must not be used for safety reasons**

Full water jet

**Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases**

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

Exposure to heat may cause bursting of the aerosol packagings.

**Special protective equipment for firefighting**

In case of combustion use a suitable breathing apparatus.

**Other information (chapter 5.)**

Cool endangered containers with water in case of fire. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES

### 6.) Accidental release measures

**Personal precautions**

Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

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**Environmental precautions**

No special measures necessary.

**Methods for cleaning up/taking up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13). Clean preferably with a detergent; avoid use of solvents.

**7.) Handling and storage**

**Handling**

**Advice on safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

**Advice on protection against fire and explosion**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

**Storage**

**Requirements for storage rooms and vessels**

Storage rooms must be properly ventilated.

**Advice on storage assembly**

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

**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. Keep container dry in a cool, well-ventilated place. Sales storage rooms with aerosol receptacles should be notified in accordance with local regulation.

**8.) Exposure controls / personal protection**

**Additional hints on technical system design.**

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.

**Exposure limit values**

**PROPANE**

CAS no. 74-98-6  
EC no. 200-827-9

**Occupational Exposure Standards (OESs) / EH40**

Propane

**BUTANE**

CAS no. 106-97-8  
EC no. 203-448-7

**Occupational Exposure Standards (OESs) / EH40**

Butane

TWA	1450	mg/m <sup>3</sup>	600	ml/m <sup>3</sup>
STEL	1810	mg/m <sup>3</sup>	750	ml/m <sup>3</sup>

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## PROPAN-2-OL

CAS no. 67-63-0  
EC no. 200-661-7

### Occupational Exposure Standards (OESs) / EH40

Propan-2-ol

TWA	999	mg/m <sup>3</sup>	400	ml/m <sup>3</sup>
STEL	1250	mg/m <sup>3</sup>	500	ml/m <sup>3</sup>

### Personal protective equipment

#### Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators: Short term: filter apparatus, Filter A/P2

#### Hand protection

Chemical resistant gloves (EN 374)

#### Eye protection

Safety glasses/face shield

#### Skin protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

#### General protective and hygiene measures

Do not eat or drink during work - no smoking.

## 9.) Physical and chemical properties

### General information

Form	Aerosol
Colour	colourless
Odour	alcohol-like

### Important health, safety and environmental information

#### Changes in physical state

Type	Boiling point
Value	not applicable
Type	Melting point
Value	not applicable

#### Flash point

Value	<	0	°C
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#### Vapour pressure

Value	<	10	bar
Reference temperature	50	°C	

#### Density

Value	0,685	g/ml
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#### Soluble in

organic solvents

## 10.) Stability and reactivity

### Conditions to avoid

Stable under recommended storage and handling conditions (See section 7).

### Materials to avoid

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

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**Hazardous decomposition products**

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

**11.) Toxicological information**

**Experience in practice**

Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract.

**Other information (chapter 11.)**

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

**12.) Ecological information**

**General information / ecology**

There are no data available on the preparation itself. For componets which are dangerous for the environment see section 2.

**13.) Disposal considerations**

**Product**

Waste code 200122 aerosols

Allocation of a waste code number, according to the European Waste Catalogue ), should be carried out in agreement with the regional waste disposal company.

**Packaging**

Disposal should be observed in conformity with the Regional Waste Disposal Authority.

**14.) Transport information**

**Land transport ADR/RID**

Class	2	Classification code	5F
UN number	1950		
Technical name	Aerosols		

**Marine transport IMDG/GGVSee**

Class	2
UN number	1950
Proper shipping name	Aerosols
EmS	2-13
MARPOL	-
Label	2.1
Remarks	The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II at least.

**Air transport ICAO/IATA**

Class	2
UN number	1950
Proper shipping name	Aerosols, flammable
Label	2
Remarks	The outer packings (boxes or cartons) should comply with the Regulations of Packing Group II (IATA-Regulation 5.2 203.).

**15.) Regulatory information**

**Labelling in accordance with EC directives**

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

**Hazard symbols**

F+ Extremely flammable

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**R phrases**

- 12 Extremely flammable  
66 Repeated exposure may cause skin dryness or cracking.

**S phrases**

- 16 Keep away from sources of ignition --- No smoking.  
23.6 Do not breathe vapour/spray.  
24/25 Avoid contact with skin and eyes.  
51 Use only in well-ventilated areas.

**Special labelling for certain preparations**

Keep out of the reach of children.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

**16.) Other information****Relevant R-phrases (chapter 2):**

- 10 Flammable.  
11 Highly flammable.  
12 Extremely flammable  
36 Irritating to eyes.  
53 May cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.