

Trade name: Sheep marking spray green TopMarker

Version: 1 / GB

Date revised: 14.09.2023

Substance number: R-27456

Replaces Version: - / GB

Print date: 04.12.2023

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

### **1.1. Product identifier**

Sheep marking spray green TopMarker

#### **Registration no.**

UFI 571F-N2KF-E00K-NG3P

#### **Substance / product identification**

PR-No. 27456

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

#### **Use of the substance/preparation**

Paint for marking animals

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

#### **Address/Manufacturer**

Albert Kerbl GmbH

Felizenzell 9

84428 Buchbach

Telephone no. +49 8086 933-100

Fax no. +49 8086 933-500

Information provided Albert Kerbl GmbH Tel.: 0049-(0)8086-933-302

by / telephone

E-mail address of sdb-team@kerbl.com

person responsible

for this SDS

### **1.4. Emergency telephone number**

Joint poison information center for the states of Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia c/o HELIOS Klinikum Erfurt Nordhäuser Strasse 74

Tel.: (03 61) 73 07 30 - Fax: (03 61) 7 30 73 17

E-Mail: ggiz@ggiz-erfurt.de - Internet: www.ggiz-erfurt.de

For England (NHS 111) call: 111

For Scotland (NHS24) call: 111

For Wales (NHS Direct) call: 111

When it's less urgent than: 999

For Northern Ireland call: GP Out-of-Hours (www.gpoutofhours.hscni.net)

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Aerosol 1 H222

H229

Skin Irrit. 2 H315

STOT SE 3 H336

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

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## Labelling according to regulation (EC) No 1272/2008

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P391	Collect spillage.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501.1	Dispose of contents/container as problematic waste.

### Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains	Hydrocarbons, C6, isoalkanes, <5% n-hexane; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
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### 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane

EINECS no.	921-024-6
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	
	Flam. Liq. 2 H225
	Skin Irrit. 2 H315
	STOT SE 3 H336
	Asp. Tox. 1 H304
	Aquatic Chronic 2 H411

##### Hydrocarbons, C6, isoalkanes, <5% n-hexane

CAS No.	64742-49-0
EINECS no.	931-254-9
Registration no.	01-2119484651-34

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Concentration	>=	10	<	30	%
Classification (Regulation (EC) No. 1272/2008)					
		Flam. Liq. 2		H225	
		Asp. Tox. 1		H304	
		Skin Irrit. 2		H315	
		STOT SE 3		H336	
		Aquatic Chronic 2		H411	

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

EINECS no.	919-857-5				
Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
		Flam. Liq. 3		H226	
		Asp. Tox. 1		H304	
		STOT SE 3		H336	

**Further ingredients****Petroleum gases, liquefied; Petroleum gas**

CAS No.	68476-85-7				
EINECS no.	270-704-2				
Concentration	>=	50			%
Advice: [3]					
Classification (Regulation (EC) No. 1272/2008)					
		Flam. Gas 1		H220	
		Press. Gas		H280	

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note K, S, U

DSD Directive 67/548/EEC, Annex I, Note H, K, S

**Note**

[3] Substance with occupational exposure limits

**Other information**

Asp. Tox1; H304 not relevant - see Regulation (EG) 1272/2008 Annex 1 para 1.3.3.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In case of persistent symptoms consult doctor.

**After inhalation**

Ensure supply of fresh air. Remove affected person from danger area. In case of persistent symptoms consult doctor.

**After skin contact**

Wash skin with plenty of soap and water. Take off contaminated clothing. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Remove contact lenses. Continue rinsing. In case of persistent symptoms consult doctor.

**After ingestion**

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water.

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Let plenty of water be drunk in small gulps. Do not induce vomiting.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

Vapours may cause drowsiness and dizziness. May cause slight irritation to skin and eyes.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / treatment**

Treat symptomatically.

**Hints for the physician / hazards**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Dry powder, Water spray jet, Foam, Carbon dioxide

**Non suitable extinguishing media**

Full water jet

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

In case of combustion evolution of dangerous gases possible. Flammable aerosol. CAUTION: Aerosol cans can explode.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

**Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

**6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. 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**

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

**6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Ensure adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid impact, friction and electrostatic loading; risk of ignition!. Use explosion-proof apparatus and fittings. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed. Always wash hands after handling the product. Do not eat, drink or smoke when using.

#### **Advice on protection against fire and explosion**

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

#### **Hints on storage assembly**

Do not store together with foodstuffs. Do not store with strong oxidizing agents.

#### **Further information on storage conditions**

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

### **7.3. Specific end use(s)**

Paint for marking animals

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Exposure limit values**

##### **Petroleum gases, liquefied; Petroleum gas**

Value	1750	mg/m <sup>3</sup>
Short term exposure limit	2180	mg/m <sup>3</sup>

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane**

List	TRGS 900	
Type	AGW	
RCP-Gruppe C6-8 Aliphaten		
Value	700	mg/m <sup>3</sup>
Maximum limit value: 2(II)		

#### **Other information**

There are not known any further control parameters.

### **8.2. Exposure controls**

#### **General protective and hygiene measures**

Do not smoke during work time. Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

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**Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

**Hand protection**

Use chemical-resistant gloves! Suitable for short-term use: 1,4mm Latex or 0,85mm Nitrile (Recommended: Kerbl Fletex (Latex), or Kerbl Chemex (Nitrile))  
Hand protection must comply with EN 374.

**Eye protection**

Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166.

**Body protection**

Clothing as usual in the chemical industry. Fire-resistant antistatic protective clothing; Protective shoes

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	liquid
<b>Colour</b>	green
<b>Odour</b>	characteristic
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Boiling point or initial boiling point and boiling range</b>	
Remarks	not determined
<b>Flammability</b>	Extremely flammable aerosol.
<b>Upper and lower explosive limits</b>	
Remarks	not determined
<b>Flash point</b>	
Value	< 23 °C
<b>Ignition temperature</b>	
Remarks	not determined
<b>Decomposition temperature</b>	
Remarks	not determined
<b>pH value</b>	
Remarks	not determined
<b>Viscosity</b>	
Remarks	not determined
<b>Solubility(ies)</b>	
Remarks	not determined
<b>Partition coefficient n-octanol/water (log value)</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Remarks	not determined
<b>Density and/or relative density</b>	
Remarks	not determined
<b>Relative vapour density</b>	
Remarks	not determined

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## 9.2. Other information

### Odour threshold

Remarks not determined

### Evaporation rate (ether = 1) :

Remarks not determined

### Solubility in water

Remarks not determined

### Explosive properties

evaluation Container is under pressure: may burst when heated.

### Oxidising properties

Remarks not determined

### Other information

None known

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. Container is under pressure: may burst when heated.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known.

### 10.4. Conditions to avoid

Hot surfaces. Flames and sparks. Protect from heat and direct sunlight. Sun exposure, high temperatures, ignition sources.

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

Hazardous decomposition products should not be formed under normal storage and use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

#### Acute oral toxicity (Components)

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane

LD50 &gt; 5000 mg/kg

##### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Species rat  
LD50 > 15000 mg/kg  
Method OECD 401

#### Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

#### Acute dermal toxicity (Components)

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane

LD50 &gt; 2800 to 3100 mg/kg

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**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Species	rabbit	
LD50	> 2000	mg/kg
Method	OECD 402	

**Acute inhalational toxicity**

Remarks Based on available data, the classification criteria are not met.

**Acute inhalative toxicity (Components)****Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane**

LC50	> 25,2	mg/l
Administration/Form	Vapors	

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Species	rat	
LC50	> 5220	mg/m <sup>3</sup>
Method	OECD 403	

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Species	rat	
LC50	> 4951	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	

**Skin corrosion/irritation**

Remarks Frequent persistent contact with the skin can cause skin irritation.

**Serious eye damage/irritation**

Remarks Based on available data, the classification criteria are not met.

**Sensitization**

Remarks Based on available data, the classification criteria are not met.

**Subacute, subchronic, chronic toxicity**

Remarks Based on available data, the classification criteria are not met.

**Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Remarks Based on available data, the classification criteria are not met.

**Carcinogenicity**

Remarks Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT)**

Remarks May cause drowsiness and dizziness.

**Specific Target Organ Toxicity (STOT) (Components)****Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics****Single exposure**

evaluation May cause drowsiness or dizziness.

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

NOAEC	> 4951	mg/l
Duration of exposure	4	h

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

No data available.

**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

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**Other information**

Inhalation of concentrated vapours as well as oral intake lead to narcosis-like conditions and headaches, dizziness, etc.

Has a degreasing effect on the skin!

**SECTION 12: Ecological information****12.1. Toxicity****General information**

Toxic to aquatic life, with long lasting effects.

**Fish toxicity (Components)****Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
LC50	11,4		mg/l
Duration of exposure	96	h	
Method	OECD 203		

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Species	Fish		
LC50	>	1000	mg/l

**Daphnia toxicity (Components)****Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane**

Species	Daphnia magna		
EC50	3		mg/l
Duration of exposure	48	h	
Method	OECD 202		

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Species	Daphnia magna		
EC50	>	1000	mg/l

**Algae toxicity (Components)****Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane**

Species	Pseudokirchneriella subcapitata		
ErC50	10	to	30 mg/l
Duration of exposure	72	h	
Method	OECD 201		

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Species	Algae		
EC50	>	1000	mg/l
Duration of exposure	72	h	

**12.2. Persistence and degradability****General information**

not determined

**Biodegradability (Components)****Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Value	80	%
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**12.3. Bioaccumulative potential****General information**

not determined

**Partition coefficient n-octanol/water (log value)**

Remarks	not determined
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## 12.4. Mobility in soil

### General information

not determined

## 12.5. Results of PBT and vPvB assessment

### General information

not determined

## 12.6 Endocrine disrupting properties

### Endocrine disrupting properties with respect to the environment

No data available.

## 12.7. Other adverse effects

### General information

not determined

### General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code                      16 05 04\*                      gases in pressure containers (including halons) containing dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Must not be disposed of together with household waste.

Do not allow to enter drains.

In accordance with regulations for special waste, must be taken, after pretreatment, to an authorised special waste incineration plant.

#### Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D		
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2	2.1	2.1
Label			
Limited Quantity	11		
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS

**Information for all modes of transport****14.6. Special precautions for user**

none

**Other information****14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC**

VOC (CH)                      appr. 95                      %

**Other regulations, restrictions and prohibition regulations**

Observe employment restrictions for young people.

Observe employment restrictions for child bearing mothers and nursing mothers.

**15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H225                      Highly flammable liquid and vapour.

H226                      Flammable liquid and vapour.

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H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

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.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.