

Trade name: Sheep marking spray red TopMarker

Version: 1 / GB

Date revised: 14.09.2023

Substance number: R-27455

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 red TopMarker

Registration no.

UFI 751F-42W2-4003-04HM

Substance / product identification

PR-No. 27455

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

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 ³
Short term exposure limit	2180	mg/m ³

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

List	TRGS 900	
Type	AGW	
RCP-Gruppe C6-8 Aliphaten		
Value	700	mg/m ³
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**

Physical state	liquid
Colour	red
Odour	characteristic
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Boiling point or initial boiling point and boiling range	
Remarks	not determined
Flammability	Extremely flammable aerosol.
Upper and lower explosive limits	
Remarks	not determined
Flash point	
Value	< 23 °C
Ignition temperature	
Remarks	not determined
Decomposition temperature	
Remarks	not determined
pH value	
Remarks	not determined
Viscosity	
Remarks	not determined
Solubility(ies)	
Remarks	not determined
Partition coefficient n-octanol/water (log value)	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Density and/or relative density	
Remarks	not determined
Relative vapour density	
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 > 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 > 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 ³
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.
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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.

SECTION 14: Transport information

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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.