

# Material Safety Data Sheet

## According to 91/155 EEC(2001/58 EC)

Printing date: 03.05.2005

Reviewed on: 03.05.2005

### 1 Identification of substance:

· **Product details:**

· **Trade name:** Spray for marking of animals (aerosol) red, green, blue

· **Application of the substance / the preparation** Marking of animals

· **Supplier/Manufacturer:**

Raidex GmbH  
Neuhäuser Str. 17  
D-72581 Dettingen/Erms  
Tel.: +49-7123-9751-0

Fax: +49-7123-9751-33

· **Information department:** see above

· **Emergency information:** National Poisons Information Centre Tel.: +44 (0)870 6006266

### 2 Composition/Data on components:

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 64-17-5 ethanol < 75%  
EINECS: 200-578-6 F; R 11

CAS: 74-98-6 propane liquefied < 30%  
EINECS: 200-827-9 F+; R 12

CAS: 67-63-0 propan-2-ol < 19%  
EINECS: 200-661-7 Xi, F; R 11-36-67

CAS: 106-97-8 butane, pure < 10%  
EINECS: 203-448-7 F+; R 12

CAS: 81-88-9 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride < 1.0%  
EINECS: 201-383-9 Xn, N; R 22-41-68-51

Metallkomplex-Farbstoff Mischung < 1.0%  
R 52/53

CAS: 2390-60-5 [4-[4-(diethylamino)-alpha-[4-(ethylamino)-1-naphthyl]benzylidene]cyclohexa-2,5-dien-1-ylidene] < 0.25%  
EINECS: 219-232-0 diethylammonium chloride  
T, N; R 25-41-50/53

· **Additional information**

The component with CAS 81-88-9 is only contained in "animal marking spray red".  
For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

· **Hazard description:**



F+ Extremely flammable

· **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EC" in the latest valid version.

Warning! Pressurized container.

Has a narcotizing effect.

R 12 Extremely flammable.

R 67 Vapours may cause drowsiness and dizziness.

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

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Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.  
Keep out of the reach of children

· **Classification system:**

The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

#### 4 First aid measures

· **After inhalation:**

Supply fresh air and be sure to call for a doctor.

In case of unconsciousness, place patients on their side in a stable position for transportation.

· **After skin contact:** Wash with water.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

If symptoms persist consult a doctor.

· **After swallowing:**

Unintentional swallowing is not very likely in the industrial area. If product is ingested:

Rinse out mouth and then drink plenty of water.

Never give anything by mouth to a unconscious person.

Consult a physician and show this safety data sheet.

· **Information for doctor:**

· **The following symptoms may occur:**

After inhalation of high concentrations:

Headache

Nausea

Dizziness

Lassitude

Unconsciousness

After swallowing:

Irritation of mucuous membranes

Vomiting

Gastric or intestinal disorders.

#### 5 Fire fighting measures

· **Suitable extinguishing agents:**

Fire-extinguishing powder

Carbon dioxide (CO<sub>2</sub>)

· **For safety reasons unsuitable extinguishing agents:**

Water

Direct jet water

· **Special hazards caused by the material, its products of combustion or resulting gases:** No hazards known

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information:**

Heating leads to pressure increase entailing danger of bursting and explosion. Immediately cool neighbouring packages and containers with sprayed water and, if possible, remove them out of the danger zone

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

#### 6 Accidental release measures

· **Person-related safety precautions:**

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.



Wear protective equipment. Keep unprotected persons away.

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Do not smoke - keep ignition sources away

- **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

- **Measures for cleaning/collecting:**

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Absorb with non-combustible material like sand, soil or diatomite.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

## 7 Handling and storage

- **Handling**

- **Information for safe handling:**

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with eyes and skin.

Avoid inhalation of vapours.

- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges

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

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

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from feed.

- **Further information about storage conditions:**

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

Protect from frost.

- **Storage class 2B** pressurized gas containers

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

**64-17-5 ethanol**

OES (Great Britain) Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

**74-98-6 propane liquefied**

OES (Great Britain) Asphyxiant

**67-63-0 propan-2-ol**

OES (Great Britain) Short-term value: 1250 mg/m<sup>3</sup>, 500 ppmLong-term value: 999 mg/m<sup>3</sup>, 400 ppm

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**106-97-8 butane, pure**OES (Great Britain) Short-term value: 1810 mg/m<sup>3</sup>, 750 ppmLong-term value: 1450 mg/m<sup>3</sup>, 600 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment**

- **General protective and hygienic measures:**

The usual precautionary measures should be adhered to when handling chemicals.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Do not eat or drink while working.

Use skin protection cream for skin protection.

Wash hands before breaks and at the end of work.

- **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter A

- **Protection of hands:**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles.

- **Body protection:** Protective work clothing.

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## 9 Physical and chemical properties:

- **General Information**

**Form:** Aerosol**Colour:** Red

Green

Blue

**Odour:** Characteristic

- **Change in condition:**

**Melting point/Melting range:** undetermined**Boiling point/Boiling range:** Not applicable, as aerosol

- **Flash point:** Not applicable, as aerosol

- **Self igniting:** Product is not self-igniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Density:** Not determined

- **Solubility in / Miscibility with**

**Water:** Insoluble

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

Conditions to be avoided: see chapter 7

- **Dangerous reactions:** No dangerous reactions known

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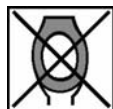
· **Dangerous products of decomposition:** No dangerous decomposition products known

### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No toxicity data are available for the product itself.
- **Primary irritant effect:**
- **on the skin:**  
May cause irritation to the skin.  
Defatting effect on the skin.
- **on the eye:** Light irritation possible
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

### 12 Ecological information

- **General notes:**  
Follow producer's instructions for use.  
Spray red, green:  
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.  
Danger to drinking water is possible if large quantities leak into the ground or into water course.  
Spray blue:  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.  
According to appendix 4 of VwVwS dated 17.05.1999 (German regulation)

### 13 Disposal considerations

- **Product:**
- **Recommendation:**



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

Must be specially treated adhering to official regulations.

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.
- **UN-Number:** 1950
- **Label:** 2.1
- **Description of goods:** 1950 AEROSOLS

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· **Remarks:** Limited Quantity: 1 l inner packing, 30 l packing unit

· **Maritime transport IMDG:**



· **IMDG Class:** 2  
 · **UN Number:** 1950  
 · **Label:** 2.1  
 · **EMS Number:** F-D,S-U  
 · **Marine pollutant:** No  
 · **Proper shipping name:** AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 2  
 · **UN/ID Number:** 1950  
 · **Label:** 2.1  
 · **Proper shipping name:** AEROSOLS

## 15 Regulations

· **Markings according to EC guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**



F+ Extremely flammable

· **Risk phrases:**

12 Extremely flammable.  
 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

3/7 Keep container tightly closed in a cool place.  
 9 Keep container in a well-ventilated place.  
 16 Keep away from sources of ignition - No smoking.  
 24/25 Avoid contact with skin and eyes.  
 33 Take precautionary measures against static discharges.  
 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.  
 51 Use only in well-ventilated areas.  
 60 This material and its container must be disposed of as hazardous waste.

· **Special labelling of certain preparations:**

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. Keep away from sources of ignition - No smoking.  
 Keep out of the reach of children

· **National regulations**

· **Water hazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.  
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Water hazard class 2 (self assessment): hazardous for water.

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Animal marking spray blue

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**16 Other information:**

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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.

**· Relevant R-phrases:**

- 11 Highly flammable.
- 12 Extremely flammable.
- 22 Harmful if swallowed.
- 25 Toxic if swallowed.
- 36 Irritating to eyes.
- 41 Risk of serious damage to eyes.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 51 Toxic to aquatic organisms.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.
- 68 Possible risk of irreversible effects.

**· Department issuing MSDS:**

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Postfach 1451 D-64345 Griesheim  
Tel.: +49-6155-823241 Fax: +49-6155-823246

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