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## 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
- · Manufacturer/Supplier:

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

Fax: +49-7123-9751-0 Fax: +49-7123-9751-33

- · Information department: see above
- · Emergency information: Information department

# 2 Composition/Data on components:

- · Chemical characterization
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 64-17-5 RTECS: KQ 6300000	ethanol	25-50%
CAS: 74-98-6 RTECS: TX 2275000	propane liquefied	10-25%
CAS: 67-63-0 RTECS: NT 8050000	propan-2-ol	10-25%
CAS: 106-97-8 RTECS: EJ 4200000	butane, pure	2.5-10%
CAS: 81-88-9 RTECS: BP3675000	9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride	< 2.5%
CAS: 2390-60-5	[4-[4-(diethylamino)-alpha-[4-(ethylamino)-1-naphthyl]benzylidene]cyclohexa-2,5-dien-1-ylidene] diethylammonium chloride	< 2.5%

#### · 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.

Metalcomplex-dye

· TSCA

All ingredients are listed.

## 3 Hazards identification

### · Hazard description:



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 EU" in the latest valid version.

Warning! Pressurized container.

Has a narcotizing effect.

Extremely flammable.

Vapours may cause drowsiness and dizziness

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< 1%

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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. Keep away from sources of ignition - No smoking.

95.0 % by mass of the contents are flammable

Keep out of the reach of children.

NFPA ratings (scale 0-4)



## 4 First aid measures

#### · After inhalation

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

In case of unconsciousness place patient stably in side 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

# $\cdot$ 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

· For safety reasons unsuitable extinguishing agents

Water.

Water with full iet.

- · 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

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





Wear protective equipment. Keep unprotected persons away.

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, 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

PEL 1900 mg/m<sup>3</sup>, 1000 ppm

REL 1900 mg/m<sup>3</sup>, 1000 ppm

TLV 1880 mg/m<sup>3</sup>, 1000 ppm

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#### 74-98-6 propane liquefied

PEL 1800 mg/m³, 1000 ppm REL 1800 mg/m³, 1000 ppm TLV (4508) mg/m³, (2500) ppm

## 67-63-0 propan-2-ol

PEL 980 mg/m<sup>3</sup>, 400 ppm

REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm TLV Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm

#### 106-97-8 butane, pure

REL 1900 mg/m<sup>3</sup>, 800 ppm TLV 1900 mg/m<sup>3</sup>, 800 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 for handling chemicals should be followed.

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.

All protective equipment used shall be according to 29 CFR.1910 Subpart I Personal Protective Equipment

#### · Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

Short term filter device:

Filter A

NIOSH/MSHA-approved respirator

## 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 the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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 trough 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.

## 9 Physical and chemical properties:

## · General Information

Form: Aerosol
Color: Red
Green

Blue

Odor: Characteristic

· Change in condition

Melting point/Melting range: undetermined

Boiling point/Boiling range: Not applicable, as aerosol

Flash point: Not applicable, as aerosol

Auto igniting: Product is not selfigniting.

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

(Contd. of page 4)

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapor 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
- · 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:

Light irritation of the skin is possible

Defatting effect on the skin.

- · on the eye: Light irritation possible.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

# 12 Ecological information:

- · Ecotoxical effects:
- · Acquatic toxicity: Presently there are no ecotoxicological values available.
- · General notes:

Follow the instructions for use of the producer or supplier.

Spray red, green:

Water hazard class 1 (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:



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.

## 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.

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

# 14 Transport information

· DOT regulations:



· Hazard class:

· Identification number: UN1950 · Proper shipping name (technical name): AEROSOLS

· Label

· Land transport ADR/RID (cross-border)



· ADR/RID class: 2 5F Gases 1950 · UN-Number: · Label 2.1

· Description of goods: 1950 AEROSOLS

Limited Quantity: 1 I inner packing, 30 I packing unit · Remarks:

· Maritime transport IMDG:



· IMDG Class: · UN Number: 1950 · Label 2.1 · EMS Number: F-D,S-U · Marine pollutant: Nο · Propper shipping name: **AEROSOLS** 

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: · UN/ID Number: 1950 · Label 2.1

· Propper shipping name: **AEROSOLS** 

# 15 Regulations

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

· IARC (International Agency for Research on Cancer)

67-63-0 propan-2-ol

81-88-9 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride

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

· NTP (National Toxicology Program)

void
· TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

64-17-5 ethanol

64-17-5 ethanol

NIOSH-Ca (National Institute for Occupational Safety and Health)

void

OSHA-Ca (Occupational Safety & Health Administration)

· Markings according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

· Code letter and hazard designation of product:



void

Extremely flammable

### · Risk phrases:

Extremely flammable.

Vapours may cause drowsiness and dizziness

# · Safety phrases:

Keep container tightly closed in a cool place

Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking.

Avoid contact with skin and eyes.

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

Use only in well-ventilated areas.

This material and its container must be disposed of as hazardous waste.

# · Special labeling of certain preparations:

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. Keep away from sources of ignition - No smoking.

95.0 % by mass of the contents are flammable

Keep out of the reach of children.

## · Regulation or reporting requirements USA

· Sara section 355

not listed

## · Sara section 313

67-63-0 propan-2-ol

# Prop. 65 - Cancer

81-88-9 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride

· Prop. 65 - Repr. tox.

not listed

## 16 Other information:

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.

# Department issuing MSDS:

KFT-Chemieservice Marienstr. 3 D-64347 Griesheim Postfach 1451 D-64345 Griesheim

Tel.: +49-6155-823241 Fax: +49-6155-823246

· Contact: Angelika Torges