

# Material Safety Data Sheet

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

Printing date: 16.03.2004

Reviewed on: 16.03.2004

### 1 Identification of substance:

- **Product details:**

- **Trade name:** **Tattoo colour black (aerosol)**
- **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:** Tattoo colour

- **Dangerous components:**

CAS: 115-10-6      dimethyl ether	10-25%
EINECS: 204-065-8 F+; R 12	

CAS: 26172-55-4      5-chloro-2-methyl-2H-isothiazol-3-one	< 2.5%
EINECS: 247-500-7 T, N; R 23/24/25-34-43-50/53	

### 3 Hazards identification

- **Hazard description:**



Xi Irritant  
F+ Extremely flammable

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

R 12 Extremely flammable.

R 43 May cause sensitisation by skin contact.

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

24.9 % by mass of the contents are flammable

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

- **General information:**

Take affected persons out of danger area and lay them down.

Immediately remove any clothing soiled by the product.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Wash with water and soap and rinse with plenty of water.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water.

If symptoms persist consult a doctor.

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- **After swallowing:** If symptoms persist consult doctor.

#### 5 Fire fighting measures

- **Suitable extinguishing agents:**

CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
Dangerous decomposition product see chapter 10: stability and reactivity
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information:**  
Cool endangered receptacles with water spray.  
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:**



Wear protective equipment. Keep unprotected persons away.

- Ensure adequate ventilation
- Do not smoke - keep ignition sources away
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.  
Do not allow to penetrate the ground/soil.
- **Measures for cleaning/collecting:**  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents  
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:**  
Keep away from heat and direct sunlight.  
Use only in well ventilated areas.  
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.

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- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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:**

### 1333-86-4 Carbon black

OES Short-term value: 7 mg/m<sup>3</sup>  
 Long-term value: 3.5 mg/m<sup>3</sup>

### 115-10-6 dimethyl ether

OES Short-term value: 958 mg/m<sup>3</sup>, 500 ppm  
 Long-term value: 766 mg/m<sup>3</sup>, 400 ppm

### 56-81-5 glycerol

OES Long-term value: 10 mg/m<sup>3</sup>

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

- **Personal protective equipment**

- **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Immediately remove all soiled and contaminated clothing

- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**

Protective gloves.

To avoid skin problems reduce the wearing of gloves to the required minimum.

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

Check protective gloves prior to each use for their proper condition.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

- **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:** Safety glasses

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

## 9 Physical and chemical properties:

- **General Information**

<b>Form:</b>	Aerosol
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

- **Change in condition:**

**Melting point/Melting range:** undetermined

**Boiling point/Boiling range:** -24°C

- **Flash point:** -10°C

- **Ignition temperature:** 235°C

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

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

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- **Explosion limits:**
  - Lower:** 0.9 Vol %
  - Upper:** 18.6 Vol %
- **Vapour pressure at 20°C:** 5200 hPa
- **Density:** Not determined
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Materials to be avoided:** Oxidants
- **Dangerous reactions:** No dangerous reactions known
- **Dangerous products of decomposition:**  
In the case of fire or at high temperatures the formation of the following decomposition products is possible.  
Carbon monoxide and carbon dioxide

### 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:** No irritating effect.
  - **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

### 12 Ecological information

- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
According to appendix 4 of VwVwS dated 17.05.1999 (German regulation)  
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.

### 13 Disposal considerations

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



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

Disposal according to instructions of local authorities.

- **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.

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- **Danger code (Kemler):** 23
- **UN-Number:** 1950
- **Packaging group:** -
- **Label:** 2.1
- **Description of goods:** Aerosols
- **Maritime transport IMDG:**



- **IMDG Class:** 2
- **UN Number:** 1950
- **Label:** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS
- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label:** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

## 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:**



Xi Irritant  
F+ Extremely flammable

- **Hazard-determining components of labelling:**  
5-chloro-2-methyl-2H-isothiazol-3-one
- **Risk phrases:**  
12 Extremely flammable.  
43 May cause sensitisation by skin contact.
- **Safety phrases:**  
2 Keep out of the reach of children.  
3 Keep in a cool place.  
9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
24 Avoid contact with skin.  
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
33 Take precautionary measures against static discharges.  
37 Wear suitable gloves.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
51 Use only in well-ventilated areas.

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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.

24.9 % by mass of the contents are flammable

Keep out of the reach of children

- **National regulations**

- **Technical guidance (air):**

- **Class Share in %**

- **Wasser 25.6**

- III 24.9

- NK 13.0

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

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#### 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.

- **Reasons for amendments:** EmS-Code

- **Relevant R-phrases:**

12 Extremely flammable.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

34 Causes burns.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **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

- **\* Data compared to the previous version altered.**

Changes have been made to chapters marked with a \*, as compared to the previous version.

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