

## 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:** **Meat marking ink (red, blue, brown)**

- **Application of the substance / the preparation** Ink

- **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

25-50%

EINECS: 200-578-6 F; R 11

- **Additional information** For further components with limit values which require monitoring at the workplace please see chapter 8.

#### 3 Hazards identification

- **Hazard description:** not applicable

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

R 10 Flammable.

- **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:** Immediately remove any clothing soiled by the product.

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

- **After skin contact:**

Generally the product does not irritate the skin.

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

- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Never give anything by mouth to a unconscious person.

#### 5 Fire fighting measures

- **Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **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.

Wear fully protective suit.

- **Additional information:**

Cool endangered receptacles with water spray.

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

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

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### 6 Accidental release measures

- **Person-related safety precautions:**



Wear protective equipment. Keep unprotected persons away.

Do not smoke - keep ignition sources away  
 Ensure adequate ventilation

- **Measures for environmental protection:**

Prevent seepage into sewage system, workpits and cellars.  
 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.  
 Absorb with non-combustible material like sand, soil or diatomite.  
 Dispose contaminated material as waste according to item 13.  
 Send for recovery or disposal in suitable receptacles.

### 7 Handling and storage

- **Handling**

- **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.  
 Keep away from heat and direct sunlight.  
 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

- **Storage**

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.  
 Protect from heat and direct sunlight.  
 Store in a cool place.

- **Storage class** 3A Flammable Liquids

### 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 Long-term value: 1920 mg/m<sup>3</sup>, 1000 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.

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- **Personal protective equipment**
  - **General protective and hygienic measures:**  
The usual precautionary measures should be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.
  - **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.  
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:** Tightly sealed goggles.
  - **Body protection:** Protective work clothing.
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### 9 Physical and chemical properties:

- **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification Dark brown
<b>Odour:</b>	Characteristic

- **Change in condition:**

<b>Melting point/Melting range:</b>	undetermined
<b>Boiling point/Boiling range:</b>	undetermined

- **Flash point:** 23°C
  - **Ignition temperature:** 400°C
  - **Self igniting:** Product is not self-igniting.
  - **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
  - **Explosion limits:**

<b>Lower:</b>	0.9 Vol %
<b>Upper:</b>	15.0 Vol %
  - **Vapour pressure at 20°C:** 59 hPa
  - **Density:** Not determined
  - **Solubility in / Miscibility with Water:** Fully miscible
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### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **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

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### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Continuing or repeated contact with the skin may cause skin disease.
- **on the eye:** No irritating effect.
- **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:**  
Water hazard class 2 (German Regulation) (Self-assessment): 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.

- **European waste catalogue:**  
07 01 04 other organic solvents, washing liquids and mother liquors
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### \*14 Transport information

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



- **ADR/RID class:** 3 (F1) Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1993
- **Packaging group:** III
- **Label:** 3
- **Description of goods:** Flammable liquid, n.o.s., ethanol (Ethyl alcohol)
- **Remarks:** Note special provision 640!

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1993
- **Label:** 3
- **Packaging group:** III

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- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL))
- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL))

### 15 Regulations

- **Markings according to EC guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
- **Risk phrases:**  
10 Flammable.
- **Safety phrases:**  
7 Keep container tightly closed.  
16 Keep away from sources of ignition - No smoking.  
60 This material and its container must be disposed of as hazardous waste.
- **National regulations**
- **Technical guidance (air):**
- **Class Share in %**
- **Wasser 40.0**
- III 36.5
- NK 20.0
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

### 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:**  
11 Highly flammable.
  - **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.