

**SECTION 1: Identification of the substance/mixture and of the company/  
undertaking**

- **1.1 Product identifier**
- **Trade name:** black OTR.069/OTR.169 Stainless
  
- **Registration number**  
The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Currently no such applications are identified
- **Application of the substance / the mixture** alcohol based permanent marking ink
  
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Walta Karl GbR - On the run  
Akim Walta  
Gerwerbehof  
Marienburgerstr. 16A  
10405 Berlin  
Phone: +49 (0) 30 - 210 21 86 - 74  
Fax: +49 (0) 30 - 210 21 86 - 77  
Email: don@fhtf.de

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3            H226 Flammable liquid and vapour.



GHS08 health hazard

Muta. 2                H341 Suspected of causing genetic defects.



GHS05 corrosion

Eye Dam. 1            H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2            H315 Causes skin irritation.  
STOT SE 3              H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS05



GHS07



GHS08



GHS09

(Contd. of page 1)

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
propan-1-ol  
1-methoxy-2-propanol  
C. I. Solvent Orange 3  
Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H341 Suspected of causing genetic defects.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
EUH208 Contains C. I. Solvent Blue 4 < 0,1% Michler's Ketone. May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**  
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- **Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 107-98-2 EINECS: 203-539-1	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	25-50%
CAS: 71-23-8 EINECS: 200-746-9	propan-1-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Dam. 1, H318; ⚠ STOT SE 3, H336	25-50%
CAS: 85536-14-7 EINECS: 287-494-3	Benzenesulfonic acid, 4-C10-13-sec-alkylderivs. ⚠ Skin Corr. 1C, H314; ⚠ Acute Tox. 4, H302; Aquatic Chronic 3, H412	2,5-10%
CAS: 84281-86-7 EINECS: 282-630-8	C. I. Solvent Violet 8 ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 4, H413	2,5-10%
CAS: 495-54-5 EINECS: 207-803-7	C. I. Solvent Orange 3 ⚠ Muta. 2, H341; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	2,5-10%
CAS: 6786-83-0 EINECS: 229-851-8	C. I. Solvent Blue 4 < 0,1% Michler's Ketone ⚠ Eye Dam. 1, H318; ⚠ Skin Sens. 1B, H317	≤1,0%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 3)

(Contd. of page 2)

- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 3
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

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

### 8.1 Control parameters

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

107-98-2 1-methoxy-2-propanol (25-50%)

IOELV	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Skin
-------	---

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **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

(Contd. on page 4)

(Contd. of page 3)

• **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form: Fluid  
Colour: According to product specification

• **Odour:** Product specific

• **Odour threshold:** Not determined.

• **Important information on protection of health and environment, and on safety.**

-

-

• **pH-value:** Not determined.

• **Change in condition**

Melting point/Melting range: Undetermined.  
Boiling point/Boiling range: 96 °C

• **Flash point:** 23 °C

• **Flammability (solid, gaseous):** Not applicable.

• **Ignition temperature:** 287 °C

• **Decomposition temperature:** Not determined.

• **Self-igniting:** Product is not selfigniting.

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

• **Explosion limits:**

Lower: 1,7 Vol %  
Upper: 13,5 Vol %

• **Vapour pressure at 20 °C:** 19 hPa

• **Density at 20 °C:** 0,85 g/cm<sup>3</sup>

• **Relative density:** Not determined.

• **Vapour density:** Not determined.

• **Evaporation rate:** Not determined.

• **Solubility in / Miscibility with water:**

Fully miscible.

• **Partition coefficient (n-octanol/water):** Not determined.

• **Viscosity:**

Dynamic at 20 °C: 4,5 mPas  
Kinematic: Not determined.

• **Solvent content:**

Organic solvents: 80,1 %

Solids content: 14,8 %

• **9.2 Other information**

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

**SECTION 10: Stability and reactivity**

• **10.1 Reactivity** No further relevant information available.

(Contd. on page 5)

(Contd. of page 4)

- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

### 71-23-8 propan-1-ol

Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rab)
Inhalative	LC50/4 h	33,8 mg/l (rat)

### 85536-14-7 Benzenesulfonic acid, 4-C10-13-sec-alkylderivs.

Oral	LD50	1350 mg/kg (rat)
------	------	------------------

### 84281-86-7 C. I. Solvent Violet 8

Oral	LD50	700 mg/kg (rat)
------	------	-----------------

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity**  
Suspected of causing genetic defects.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

EU  
(Contd. on page 6)

(Contd. of page 5)

**SECTION 14: Transport information**

<ul style="list-style-type: none"> <li>14.1 UN-Number</li> <li>ADR, IMDG, IATA</li> </ul>	UN1263
<ul style="list-style-type: none"> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG</li> <li>IATA</li> </ul>	1263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT (chrysoidine), MARINE POLLUTANT PAINT
<ul style="list-style-type: none"> <li>14.3 Transport hazard class(es)</li> <li>ADR</li> </ul>	3 (F1) Flammable liquids.
<ul style="list-style-type: none"> <li>Class</li> <li>Label</li> </ul>	3
<ul style="list-style-type: none"> <li>IMDG</li> </ul>	3 (F1) Flammable liquids.
<ul style="list-style-type: none"> <li>Class</li> <li>Label</li> </ul>	3
<ul style="list-style-type: none"> <li>IATA</li> </ul>	3 Flammable liquids.
<ul style="list-style-type: none"> <li>Class</li> <li>Label</li> </ul>	3
<ul style="list-style-type: none"> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	III
<ul style="list-style-type: none"> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> <li>Special marking (ADR):</li> </ul>	Product contains environmentally hazardous substances: chrysoidine Yes Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids. 30 F-E, S-E A
<ul style="list-style-type: none"> <li>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>Transport/Additional information:</li> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E
<ul style="list-style-type: none"> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>Remarks:</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 1263 Paint (dye-stuff C.I. Solvent Orange 3), Marine Pollutant
<ul style="list-style-type: none"> <li>UN "Model Regulation":</li> </ul>	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

EU  
(Contd. on page 7)

(Contd. of page 6)

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- National regulations:
- Technical instructions (air):

Class	Share in %
NK	50-100
- Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 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.

- Relevant phrases  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H341 Suspected of causing genetic defects.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.
- Abbreviations and acronyms:  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organisation  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
SVHC: Substances of Very High Concern  
Flam. Liq. 2: Flammable liquids - Category 2  
Flam. Liq. 3: Flammable liquids - Category 3  
Acute Tox. 4: Acute toxicity - Category 4  
Skin Corr. 1C: Skin corrosion/irritation - Category 1C  
Skin Irrit. 2: Skin corrosion/irritation - Category 2  
Eye Dam. 1: Serious eye damage/eye irritation - Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation - Category 2  
Skin Sens. 1B: Skin sensitisation - Category 1B  
Muta. 2: Germ cell mutagenicity - Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3  
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4
- \* Data compared to the previous version altered.

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- **1.1 Product identifier**
- **Trade name:** silver OTR.069/OTR.169
- **Registration number**  
The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Currently no such applications are identified
- **Application of the substance / the mixture** pigmented Paintmarker Ink
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Walta Karl GbR - On the Run  
Akim Walta  
Gewerbehof  
Marienburgerstr. 16A  
10405 Berlin  
Phone: +49 (0) 30 - 210 21 86 - 74  
Fax: +49 (0) 30 - 210 21 86 - 77  
Email: don@fhtf.de

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

R10-67: Flammable. Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human 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.  
Has a narcotising effect.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Warning

- **Hazard-determining components of labelling:**

1-Methoxy-2-propanol

- **Hazard statements**

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.



(Contd. of page 1)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures  
Mixture of the following substances, containing non-hazardous substances and colouring agents.
- Description: Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 107-98-2 EINECS: 203-539-1	1-Methoxy-2-propanol R10-67 ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	50-100%
CAS: 7429-90-5 EINECS: 231-072-3	aluminium powder (stabilised) F R10-15 ⚠ Flam. Sol. 2, H228; Water-react. 2, H261	10-25%

- Additional information: For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

- 4.1 Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed  
No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

### SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: No special measures required.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.  
Wear protective clothing.
- 6.2 Environmental precautions:  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling  
Ensure good ventilation/exhaustion at the workplace.  
Not applicable
- Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

(Contd. on page 3)

(Contd. of page 2)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
 Keep container tightly sealed.  
 Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

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

· **8.1 Control parameters**

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

107-98-2 1-Methoxy-2-propanol (50-100%)

IOELV	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Skin
-------	---

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Product specific
<b>Odour threshold:</b>	Not determined.

· **Important information on protection of health and environment, and on safety.**

-  
-

· **pH-value:**

Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	120 °C

· **Flash point:**

31 °C

(Contd. on page 4)

(Contd. of page 3)

· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	287 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
Lower:	1,7 Vol %
Upper:	11,5 Vol %
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	1,179 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic at 20 °C:	20 mPas
Kinematic:	Not determined.
· <b>Solvent content:</b>	
Organic solvents:	71,4 %
Solids content:	27,3 %
· <b>9.2 Other information</b>	No further relevant information available.

#### SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- 10.3 **Possibility of hazardous reactions** No dangerous reactions known.
- 10.4 **Conditions to avoid** No further relevant information available.
- 10.5 **Incompatible materials:** No further relevant information available.
- 10.6 **Hazardous decomposition products:** No dangerous decomposition products known.

#### SECTION 11: Toxicological information

- 11.1 **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitisation:** No sensitising effects known.

#### SECTION 12: Ecological information

- 12.1 **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- 12.2 **Persistence and degradability** No further relevant information available.
- 12.3 **Bioaccumulative potential** No further relevant information available.
- 12.4 **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
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.
- 12.5 **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 **Other adverse effects** No further relevant information available.

EU

(Contd. on page 5)

(Contd. of page 4)

### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation

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

- European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 13*	sludges from paint or varnish containing organic solvents or other dangerous substances

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- 14.1 UN-Number
- ADR, IMDG, IATA

UN1263

- 14.2 UN proper shipping name
- ADR
- IMDG, IATA

1263 PAINT  
PAINT

- 14.3 Transport hazard class(es)
- ADR



- Class
  - Label
- 3 (F1) Flammable liquids.  
3

- IMDG, IATA



- Class
  - Label
- 3 Flammable liquids.  
3

- 14.4 Packing group
- ADR, IMDG, IATA

III

- 14.5 Environmental hazards:
- Marine pollutant:

No

- 14.6 Special precautions for user
- Danger code (Kemler):
- EMS Number:

Warning: Flammable liquids.  
30  
F-E,S-E

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

- Transport/Additional information:

- ADR

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L  
Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- Transport category
- Tunnel restriction code

3  
D/E

- IMDG

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L  
Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- UN "Model Regulation":

UN1263, PAINT, 3, III

EU  
(Contd. on page 6)

(Contd. of page 5)

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Technical instructions (air):

Class	Share in %
NK	50-100

- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 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.

#### Relevant phrases

H226 Flammable liquid and vapour.  
H228 Flammable solid.  
H261 In contact with water releases flammable gases.  
H336 May cause drowsiness or dizziness.  
R10 Flammable.  
R15 Contact with water liberates extremely flammable gases.  
R67 Vapours may cause drowsiness and dizziness.

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organisation  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Flam. Sol. 2: Flammable solids, Hazard Category 2  
Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

- \* Data compared to the previous version altered.