# according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2015/830



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

## 1.1. product identifiers

Article No. (manufacturer/supplier): 100VR1390

Identification of the substance or mixture

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Printing aid

# 1.3. Details of the supplier of the safety data sheet

#### supplier (manufacturer/importer/downstream user/distributor)

A.M. Ramp & Co GmbH

RUCO Druckfarben Telephone: +49.61 98.30 40 Lorsbacher Str. 28 Telefax: +49.61 98.3 22 88

D-65817 Eppstein

Dept. responsible for information:

E-mail info@ruco-inks.com

1.4. Emergency telephone number

Emergency telephone number +49.61 98.30 40

Only available during office hours.

# **SECTION 2: Hazards identification**

## 1. Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226
Eye Irrit. 2 / H319
Serious eye damage/eye irritation
Skin Sens. 1 / H317
STOT SE 3 / H336
Flammable liquids
Serious eye damage/eye irritation
Respiratory or skin sensitisation
Specific target organ toxicity (single

Flammable liquid and vapour.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.

exposure)

Asp. Tox. 1 / H304 Aspiration hazard May be fatal if swallowed and enters airways. Aquatic Chronic 3 / H412 Hazardous to the aquatic environment Harmful to aquatic life with long lasting effects.

2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

# **Hazard pictograms**







Danger

#### **Hazard statements**

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves and eye/face protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire, use sand, extinguishing powder or alcohol resistant foam.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

contains:

Fatty acids, C14-18- and C16-18- unsaturated, maleated

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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#### Supplemental Hazard information (EU)

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### Other hazards

## **SECTION 3: Composition / information on ingredients**

#### 3.2. Mixtures

Product description / chemical characterization Description Solvent containing resin solution

#### **Hazardous ingredients**

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. INDEX No.	REACH No. Chemical name classification: // Remark	Wt %
203-961-6 112-34-5 603-096-00-8	01-2119475104-44-XXXX 2-(2-butoxyethoxy)ethanol Eye Irrit. 2 H319	50 - 100
919-857-5	01-2119463258-33-XXXX  Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336	20 - 25
920-134-1	01-2119480153-44-XXXX  Hydrocarbons, C9-C11, isoalkanes,cyclics, < 2% aromatics  Flam. Liq. 3 H226 / Aquatic Chronic 2 H411 / Asp. Tox. 1 H304 / STOT SE 3 H336	5 - 10
288-306-2 85711-46-2	01-2119976378-19-XXXX Fatty acids, C14-18- and C16-18- unsaturated, maleated Skin Irrit. 2 H315 / Skin Sens. 1 H317	1 - 2,5
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32-XXXX Xylene Flam. Liq. 3 H226 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / STOT RE 2 H373 / STOT SE 3 H335	1 - 2,5

## **Additional information**

Full text of classification: see section 16

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

## In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

## Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

## After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

# After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

# Indication of any immediate medical attention and special treatment needed

# **SECTION 5: Firefighting measures**

# according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2015/830



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#### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

#### Extinguishing media which must not be used for safety reasons:

strong water jet

#### 5.2. Special hazards arising from the substance or mixture

Inhaling hazardous decomposing products can cause serious health damage.

## 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

#### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

#### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

#### 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

## Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

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## Occupational exposure limit values

2-(2-butoxyethoxy)ethanol

INDEX No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

WEL, TWA: 67,5 mg/m3; 10 ppm WEL, STEL: 101,2 mg/m3; 15 ppm

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EC No. 919-857-5

COSHH, WEL, TWA: 300 mg/m3

Hydrocarbons, C9-C11, isoalkanes, cyclics, < 2% aromatics

EC No. 920-134-1

COSHH, WEL, TWA: 300 mg/m3

**Xylene** 

INDEX No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m3; 50 ppm WEL, STEL: 441 mg/m3; 100 ppm BMGV. TWA: 650 mmol/mol creatinine

Remark: methyl hippuric acid; urine; end of exposure or end of shift

#### **Additional information**

TWA: long-term occupational exposure limit value STEL: short-term occupational exposure limit value

Ceiling: peak limitation

#### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### Occupational exposure controls

## Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

#### Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

# Eye protection

Wear closely fitting protective glasses in case of splashes.

#### Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

## **Environmental exposure controls**

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance:

Physical state:
Colour:
Colour:
Characteristic
Odour threshold:
pH at 20 °C::
Cliquid
refer to label
refer to label
not determined
not applicable

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Melting point/freezing point: not determined

Initial boiling point and boiling range: 130 °C 31 °C Flash point:

**Evaporation rate:** not determined

Flammability (solid, gas):

Burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 0,6 Vol-% **Upper explosion limit:** 9 Vol-% Vapour pressure at 20 °C:: 7 mbar

not determined Vapour density:

Relative density:

Density at 20 °C:: 0,89 g/cm<sup>3</sup>

Solubility(ies):

Water solubility (g/L) at 20 °C:: partially soluble Partition coefficient: n-octanol/water: see section 12

200 °C Ignition temperature in °C

**Decomposition temperature:** not applicable Viscosity at 20 °C:: 11 s 4 mm

Method: DIN 53211

**Explosive properties:** not applicable not applicable Oxidising properties:

9.2. Other information

Solid content (%): 2 Wt %

solvent content:

Organic solvents: 98 Wt % Water: 0 Wt %

< 3 Wt % (ADR/RID) Solvent separation test (%):

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Not applicable.

## 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

# 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

## 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

## 10.5. Incompatible materials

Not applicable.

# 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

# **SECTION 11: Toxicological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

No data on preparation itself available.

# 11.1. Information on toxicological effects

# **Acute toxicity**

Toxicological data are not available.

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#### skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye irritation.

## Respiratory or skin sensitisation

May cause an allergic skin reaction.

## Specific target organ toxicity

May cause drowsiness or dizziness.

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

#### Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatique, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### **Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

# **SECTION 12: Ecological information**

#### overall evaluation

Classification according to Regulation (EC) No 1272/2008 [CLP]

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

# 12.1. Toxicity

Toxicological data are not available.

# Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

# 12.2. Persistence and degradability

Toxicological data are not available.

# 12.3. Bioaccumulative potential

Toxicological data are not available.

#### 12.4. Mobility in soil

Toxicological data are not available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# Appropriate disposal / Product

## Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

## List of proposed waste codes/waste designations in accordance with EWC

080312\* waste ink containing dangerous substances

# packaging

# according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2015/830



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#### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

# **SECTION 14: Transport information**

14.1. UN number

UN 1210

14.2. UN proper shipping name

Land transport (ADR/RID): Printing ink Sea transport (IMDG): PRINTING INK Air transport (ICAO-TI / IATA-DGR): Printing ink

14.3. Transport hazard class(es)

3

14.4. Packing group

Ш

14.5. Environmental hazards

Land transport (ADR/RID) not applicable Marine pollutant not applicable

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further information** 

Land transport (ADR/RID)

tunnel restriction code D/E

Sea transport (IMDG)

F-E, S-D EmS-No.

Air transport (ICAO-TI / IATA-DGR)

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

# **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU** legislation

# Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 873,418

# **National regulations**

# Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

# Other regulations, restrictions and prohibition regulations

## 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

# **SECTION 16: Other information**

# Full text of classification in section 3:

Serious eye damage/eye irritation Eye Irrit. 2 / H319 Causes serious eve irritation. Flammable liquids Flammable liquid and vapour. Flam. Liq. 3 / H226

May be fatal if swallowed and enters airways. Asp. Tox. 1 / H304 Aspiration hazard

STOT SE 3 / H336 Specific target organ toxicity (single May cause drowsiness or dizziness.

exposure)

Toxic to aquatic life with long lasting effects. Aquatic Chronic 2 / H411 Hazardous to the aquatic environment

Skin Irrit. 2 / H315 skin corrosion/irritation Causes skin irritation.

# according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2015/830



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Skin Sens. 1 / H317 May cause an allergic skin reaction. Respiratory or skin sensitisation Acute Tox. 4 / H312 Acute toxicity (dermal) Harmful in contact with skin.

Acute Tox. 4 / H332 Acute toxicity (inhalative) Harmful if inhaled.

STOT RE 2 / H373 Specific target organ toxicity (repeated May cause damage to organs (or state all

organs affected, if known) through prolonged or exposure) repeated exposure (state route of exposure if it is conclusively proven that no other routes of

exposure cause the hazard).

Specific target organ toxicity (single May cause respiratory irritation. STOT SE 3 / H335 exposure)

Remark

n.a. = not applicable

#### **Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version