

# Safety Data Sheet

## GHS VERSION

Article No.: 21826  
Print date 25.02.2016  
Version 1.1

Kiwoclean Ink Wash 140  
Revision date 26.01.2016  
Issue date 26.01.2016

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifiers

Article No. (manufacturer/supplier): 21826  
Identification of the substance or mixture: Kiwoclean Ink Wash 140  
(formerly 90193/5 VP Ink Wash)

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

##### Relevant identified uses

Stencil production for screen and textile printing. Reserved for industrial and professional use.

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

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

KIWO Inc.  
1929 Marvin Circle Telephone: +1 281-474-9777  
Seabrook, TX 77586 Telefax: +1 281-474-7325  
USA

#### 1.4. Emergency telephone number

Emergency telephone: 1-800-255-3924 / +1 813-248-0573 (ChemTel)

### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GHS

This mixture is classified as hazardous according to GHS

|                          |  |  |
|--------------------------|--|--|
| Flam. Liq. 4 / H227      | flammable liquids                                | Combustible liquid.                              |
| Skin Irrit. 2 / H315     | skin corrosion/irritation                        | Causes skin irritation.                          |
| Skin Sens. 1 / H317      | respiratory or skin sensitisation                | May cause an allergic skin reaction.             |
| STOT SE 3 / H335         | Specific target organ toxicity (single exposure) | May cause respiratory irritation.                |
| Asp. Tox. 1 / H304       | Aspiration hazard                                | May be fatal if swallowed and enters airways.    |
| Aquatic Chronic 2 / H411 | Hazardous to the aquatic environment             | Toxic to aquatic life with long lasting effects. |

#### 2.2. Label elements

The product is classified and labelled according to GHS.

##### Labelling according to GHS

##### Hazard pictograms



**Danger**

##### Hazard statements

H227 Combustible liquid.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic 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 Extinguishing powder or sand to extinguish.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.

##### contains:

Citrus terpenes  
Solvent naphtha (petroleum), medium aliph.

#### 2.3. Other hazards

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### 3. Composition / Information on ingredients

#### 3.2. Mixtures

##### Product description / chemical characterization

Description solvent mixture

##### Hazardous ingredients

##### Classification according to GHS

| EC No.       | REACH No.  | Wt %     |
|--------------|--|----------|
| CAS No.      | Chemical name  | Remark   |
| INDEX No.    | classification:  |          |
| 265-191-7    |  |          |
| 64742-88-7   | Solvent naphtha (petroleum), medium aliph.   | 60 - 100 |
| 649-405-00-X | Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / STOT SE 3 H335   |          |
| 203-905-0    | 01-2119475108-36   |          |
| 111-76-2     | 2-butoxyethanol  | 10 - 30  |
| 603-014-00-0 | Acute Tox. 4 H332 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Skin Irrit. 2 H315   |          |
| 304-454-3    |  |          |
| 94266-47-4   | Citrus terpenes<br>Flam. Liq. 3 H226 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Asp. Tox. 1 H304 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 | 5 - 10   |

##### Additional information

Full text of classification: see section 16

### 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 irregular breathing or respiratory arrest provide artificial respiration.

##### Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately.

##### After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### After ingestion

Seek medical advice immediately. 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.

#### 4.3. Indication of any immediate medical attention and special treatment needed

### 5. Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Carbon dioxide Water mist Foam

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

strong water jet

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

Gases/vapours, toxic

#### 5.3. Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

##### Additional information

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are

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near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

### 6. Accidental release measures

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

Ventilate affected area. Remove persons to safety. Do not breathe vapours. See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

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

#### 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 chapter 13).

#### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

### 7. Handling and storage

#### 7.1. Precautions for safe handling

##### Advices on safe handling

Avoid contact with skin and eyes. Do not inhale vapours or mist.

Do not eat, drink or smoke when using this product.

Personal protection equipment: refer to chapter 8.

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

##### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

##### Requirements for storage rooms and vessels

Always keep in containers that correspond to the material of the original container. Ensure adequate ventilation of the storage area.

##### Hints on joint storage

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

##### Additional information

VCI-storage class, see Chapter 15

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

Observe technical data sheet. Observe instructions for use.

### 8. Exposure controls / Personal protection

#### 8.1. Control parameters

##### Occupational exposure limit values:

n.a.

##### DNEL:

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg

DNEL long-term dermal (systemic), Workers: 75 mg/kg

DNEL acute inhalative (local), Workers: 246 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 663 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 98 mg/m<sup>3</sup>

##### PNEC:

2-butoxyethanol

INDEX No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

PNEC aquatic, freshwater: 8.8 mg/L

PNEC aquatic, marine water: 0.88 mg/L

PNEC sediment, freshwater: 34.6 mg/kg

PNEC sediment, marine water: 3.46 mg/kg

PNEC, Soil: 2.8 mg/kg

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### 8.2. Exposure controls

#### Personal protection equipment

##### **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).

##### **Hand protection**

Wear chemical resistant protective gloves.

##### **Eye protection**

Wear closed protection glasses.

##### **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 in significant quantities.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### **Appearance:**

**Physical state** liquid  
**Colour** refer to label  
**Odour** characteristic

#### **Safety relevant basis data**

|  |                        | <b>Method</b>               | <b>Remark</b> |
|--|------------------------|-----------------------------|---------------|
| <b>Flash point:</b>                            | > 60 °C                | ASTM D 93<br>Pensky-Martens |               |
| <b>Ignition temperature (AIT)</b>              | 237 °C                 |                             |               |
| <b>Lower explosion limit</b>                   | 0.8 Vol-%              |                             |               |
| <b>Upper explosion limit</b>                   | 10.6 Vol-%             |                             |               |
| <b>Vapour pressure at 20 °C:</b>               | 0.01 mbar              |                             |               |
| <b>Density at 20 °C:</b>                       | 0.80 g/cm <sup>3</sup> |                             |               |
| <b>Water solubility (g/L)</b>                  | partially soluble      |                             |               |
| <b>pH at 20 °C:</b>                            | -                      |                             |               |
| <b>Viscosity at 20 °C:</b>                     | 11 s 4 mm              | DIN 53211                   |               |
| <b>Initial boiling point and boiling range</b> | 171 °C (101,3 kPa)     |                             |               |
| <b>Decomposition temperature (°C):</b>         | 0                      |                             |               |

### 9.2. Other information:

## 10. Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

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

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

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

## 11. Toxicological information

Classification for mixtures and used evaluation method according to GHS  
No data on preparation itself available.

### 11.1. Information on toxicological effects

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### Acute toxicity

Citrus terpenes  
dermal, LD50, Rabbit: > 5000 mg/kg

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

Toxicological data are not available.

### Respiratory or skin sensitisation

Toxicological data are not available.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

### Specific target organ toxicity

Toxicological data are not available.

### Aspiration hazard

Citrus terpenes  
Aspiration hazard

### Practical experience/human evidence

Other observations:  
Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc..

### 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.

### Remark

There is no information available on the preparation itself .

## 12. Ecological information

### overall evaluation

Classification for mixtures and used evaluation method according to GHS  
Do not store at public landfills.

#### 12.1. Toxicity

No information available.

### Long-term Ecotoxicity

Toxicological data are not available.

#### 12.2. Persistence and degradability

Toxicological data are not available.

#### 12.3. Bioaccumulative potential

Toxicological data are not available.

### Bioconcentration factor (BCF)

Toxicological data are not available.

#### 12.4. Mobility in soil

Toxicological data are not available.

#### 12.5. Results of PBT assessment

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

#### 12.6. Other adverse effects

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product Recommendation

Dispose of waste according to applicable legislation.

#### packaging

#### Recommendation

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

### 14. Transport information

#### 14.1. UN number

UN 3082

#### 14.2. UN proper shipping name

Land transport (ADR / RID / DOT): Environmentally hazardous substance, liquid, n.o.s.  
Sea transport (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Air transport (ICAO-TI / IATA-DGR): Environmentally hazardous substance, liquid, n.o.s.

#### 14.3. Transport hazard class(es)

9

#### 14.4. Packing group

III

#### 14.5. Environmental hazards

Land transport (ADR / RID / DOT): environmental hazard  
Marine pollutant p

#### 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

#### Additional information

#### Land transport (ADR / RID / DOT):

tunnel restriction code E

#### Sea transport (IMDG)

EmS-No. F-A, S-F  
Packaging >30 l

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

not applicable

### 15. Regulatory information

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

#### Observe in addition any national regulations!

calculated with mixing rule

#### Substance/product listed in the following inventories:

Listed in TOXIC SUBSTANCES CONTROL ACT (TSCA)

#### 15.2. Chemical Safety Assessment

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

### 16. Other information

#### Full text of classification in section 3:

|                        |  |   |
|------------------------|--|---|
| Skin Irrit. 2 / H315   | skin corrosion/irritation                        | Causes skin irritation.                       |
| Eye Irrit. 2 / H319    | Serious eye damage/eye irritation                | Causes serious eye irritation.                |
| Asp. Tox. 1 / H304     | Aspiration hazard                                | May be fatal if swallowed and enters airways. |
| STOT SE 3 / H335       | Specific target organ toxicity (single exposure) | May cause respiratory irritation.             |
| Acute Tox. 4 / H332    | Acute toxicity (inhalative)                      | Harmful if inhaled.                           |
| Acute Tox. 4 / H312    | Acute toxicity (dermal)                          | Harmful in contact with skin.                 |
| Acute Tox. 4 / H302    | Acute toxicity (oral)                            | Harmful if swallowed.                         |
| Flam. Liq. 3 / H226    | flammable liquids                                | Flammable liquid and vapour.                  |
| Skin Sens. 1 / H317    | respiratory or skin sensitisation                | May cause an allergic skin reaction.          |
| Aquatic Acute 1 / H400 | Hazardous to the aquatic environment             | Very toxic to aquatic life.                   |

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Aquatic Chronic 1 / H410

Hazardous to the aquatic environment

Very toxic to aquatic life with long lasting effects.

### Additional information

Classification for mixtures and used evaluation method according to GHS

The information supplied on this safety data sheet is correct to the best of our knowledge. 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.