



**Material Safety Data Sheet**

Revision date: 01.05.12

Revision 4.1

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**1. Product and company Identification**

**Commercial product name** TPWA-RS-010 Ink

Water based pink ink

**24 Hr Emergency telephone: Infotrac 1-800-535-5053**

**2. Composition**

**Components**

Ammonia solution (25 % in water)

**CAS No.**

1336-21-6

**Quantity**

< 3%

**3. Hazards Identification**

***Special hazard information with regard to health and environment:***

Irritating to skin, mucous membranes and eyes.

**4. First Aid Measures**

***General advice:***

Take off immediately all contaminated clothing. If there is a risk that casualty is losing consciousness, lay him and move him safely on his side.

***Inhalation:***

Move casualty to fresh air. If there is respiratory distress, give oxygen and seek medical attention.

***Skin contact:***

Wash affected area with soap and copious amounts of water.

***Eye contact:***

Rinse immediately with copious amounts of water (at least 15 minutes long). Seek medical attention. Pay attention to contact lenses.

***Ingestion:***

Have the casualty take a rest. Seek immediately medical attention. DO NOT INDUCE VOMITING. NO MILK, NO CASTOR OIL. The doctor will have to decide which measures are to be taken.

**5. Fire Fighting Measures**

**5.1 Extinguishing media:**

To be used: Foam, carbon dioxide, dry powder or water spray

Do NOT use: Water jet

**5.2 Combustion hazards:** Ammonia and other irritating nitrogen compounds

**5.3 Special personal protective equipment during fire fighting:**

**6. Accidental Release Measures**

***Personal protection:***

Do not breathe in vapors/aerosol.

Wear Vinyl gloves and safety glasses, exhauster or respiratory equipment.

***Environmental protection:***

Do not allow to enter sewers or waterways.

***After spillage/leakage:***

Absorb spills with non-combustible, liquid-binding material (such as sand, silica gel, multi-purpose binding agent) and remove to a safe place for disposal (please refer to 13.)

***Further information:***

**7. Handling and storage**

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**7.1 Handling:**

Usual precautionary measures when handling chemicals are to be taken.

Avoid contact with skin and eyes! Do not breathe in vapors!

Open and handle container with care. Do not smoke, eat or drink at work. Preventive skin protection is recommended. Wash hands with soap and copious amounts of water at the end of work.

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**7.2 Storage:**

Keep container tightly closed and store in a well ventilated, cool area. Keep away from frost.

**7.3 Storage conditions:**

At room temperature (+15-25°C are recommended)

**DO NOT HEAT UP ABOVE 45°C**

**8. Occupational exposure limits and personal protection**

**Limits:**

**8.1 Constituents, the values of which are to be watched at work:**

**MAK (TRGS 900)**

CAS Nr.: Rule: Value: Unit: Value: Unit:

**8.2 Personal protective equipment:**

**Respiratory protection:**

If no exhauster available, wear breathing filter Class K

**Protective gloves:**

Wear impermeable protective gloves (Vinyl).

**Eye protection:**

Wear safety glasses/goggles.

**Protective clothing:**

Wear long-sleeved working clothes.

**Hygiene measures:**

Keep away from food, drink and animal feeding stuffs. Wash hands when making a break and at the end of work. Do not smoke, eat or drink at work. Preventive skin protection

**9. Physical and Chemical Properties:**

<b>Form:</b>	liquid
<b>Colour:</b>	pink
<b>Odour:</b>	characteristic
<b>pH value:</b>	~ 9.6
<b>Boiling point:</b>	100°C
<b>Melting point</b>	n.a.
<b>Flash point:</b>	n.a.
<b>Autoignition point:</b>	n.a.
<b>Explosive limits:</b>	lower: upper:
<b>Vapour pressure:</b>	n.d.a.
<b>Density:</b>	~ 1.026 g/ml
<b>Bulk density:</b>	n.a.
<b>Dynamic viscosity:</b>	6.2 mm <sup>2</sup> /s
<b>Solubility in water:</b>	Miscible
<b>Solvent content:</b>	< 2 %

**10. Stability and Reactivity**

**Conditions to avoid:** Strong heat > 45°C

No decomposition under normal conditions of anticipated use.

**Substances to avoid:**

Strong oxidizing agents, acids and copper compounds

**Hazardous decomposition:**

Ammonia and nitrogen compound.

**11. Toxicological Information**

**Acute toxicity:**

**LD50:** Acute/oral/rat:

**LD50:** Acute/dermal/rabbit:

**LD50:** Inhalation/rat:

Primary irritation: Repeated or long-lasting contact with the skin may cause skin eruptions and dermatitis.

Fat-solvent properties.

Further information: Eye contact may cause conjunctivitis and momentary corneal injury.

Ingestion may cause: Depression of the central nervous system, nausea, vomiting, loss of coordination, loss of consciousness.

If inhaled may cause similar effects than described for ingestion

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**12. Ecological Information**

The recipe does not contain any heavy metals. Water pollution hazards Class 1 (Germany)  
No environmental problems are to be expected if the product is handled under normal conditions of anticipated use.

**13. Disposal Considerations**

Consult local authorities for approved method of disposal.

**European waste code:** 070604

**Uncleaned packings:**

**Recommendation:**

Waste disposal as per local regulations.

**14. Transport Information**

The product is not dangerous goods.

**15. Regulatory Information**

**15.1 Labelling according to EC guideline 67/548/EEC 24th guideline conformity:**

The product is classified and labelled according to EC guidelines.

**R phrases:**

**S phrases:**

*Recommendation:* Avoid contact with the skin and with the eyes.

**Special labelling for particular preparations:**

None

**15.2 Further regulations:**

The constituents of the product are listed in the EINECS inventory.

**16. Disclaimer of Liability**

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