



REF No.:	MSDS/020
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MATERIAL SAFETY DATA SHEET

1. Product & Company Identification:

Product Details:

Description: TRUAQUA (Water Based Inks)

Company Details:

Address: Plot No.D-109To D-112, GNEPIP,SITE-V, IND. Area,Kasna, Greater NOIDA U.P.-INDIA

Telephone: 91-120-2341229
Fax: 91-120-2341227
E-Mail: info@tirupatiinks.com
Website: www.tirupatiinks.com

2. Composition / Information on Ingredients:

<u>Chemical Characterization:</u>	<u>CAS #</u>	<u>% Range</u>
Ammonia	7664-41-7	<1.0%
Monoethanol Amine	141-43-5	0.3-1.3%
Triethanol Amine	102-71-6	0.0-7.0%
2,2' Dihydroxydiethylether	111-46-6	0.0-1.5%

3. Hazards Identification:

Emergency Overview:

Inhalation May cause irritation of throat and lungs. Medical conditions prone to aggravation by exposure none known.

Eye Contact	May cause mild irritation.
Skin contact	May cause mild irritation.
Skin Absorption	No evidence of harmful effects form available information.
Ingestion	May be harmful if swallowed.

4. First Aid Measures

Inhalation Remove to fresh air. Consult physician / medical help if respiratory is not relieved by fresh air. Give artificial respiration or oxygen if necessary.

Eye Contact Rinse eyes immediately with large amounts of running water for at least 15 minutes and contact physician as needed. (S26).

Skin Contact Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.

Ingestion Wash out mouth with water, do not induce vomiting. Consult physician.

5. FIRE FIGHTING MEASURES

Fire point and Auto-Ignition Temperature. Auto Ignition temperature - Not currently available

Extinguishing Media : Non-flammable (aqueous solution). After water evaporates, remaining material will burn. Apply alcohol-type or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use water spray, carbon dioxide or dry chemical media for small fires.

Extinguishing Media to Avoid : No information currently available.

Special fire fighting procedure : Water – Foam CO2

Special protective equipment for fire fighters:

- Use self-contained breathing apparatus when fighting fires in enclosed areas.
- Hazardous polymerization may occur under fire condition, and toxic fumes may be released.

Unusal Fire and Explosion Hazards.: Open Fire. Keep away from excess heat

6 ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled

- Keep out of water course
- Used absorbent material
- Mob with soap and water.

Personal Precautions : Wear suitable protective equipment. See Sec.8.2 Personal Protection.

Environmental Precautions : Not toxic to fish or plans.

7. Handling & Storage:

Handling :

- Precautions to be taken in handling
- Avoid opening drums in unventilated areas/
- Store in cool area.
- Do not inhale or take internally.
- Avoid contact with eyes.
- Avoid prolonged or repeated contact with skin.

Storage : Store about 4°C (40° F). Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

Respiratory Protection : None required if airborne concentrations are maintained below listed exposure limits. If airborne concentrations exceed listed exposure limits, elect respiratory protection equipment in accordance with OSHA standard 29 CFR 1910.134. If necessary, use NIOSH approved mist respiratory in poorly ventilated area.

- Ventilation :** General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.
- Eye Protection :** Closely fitting goggles.
- Hand Protection :** Safety glasses or monogoggles, as appropriate.
- Protective Gloves:** Polyvinyl chloride coated.

9. PHYSICAL AND CHEMICAL PROPERTIES.

- Physical State : Liquid** **Odor : Amonia**
- Colour : Various colours.** **Theoretical VOC's Wt. pH 9.0 4.0% - 6.5%**
- Boiling Point : N/A** **Flash Point : NA**
- Decomposition Temp : > 150°** **Explosion Properties : NA**
- Autoignition Temp : NA** **Liquid Density : 1.1 (WATER=1)**
- Percentage Volatile Wt: 50%-80%** **Solubility: Miscible in All proportions.**

10. Stability & reactivity:

- Stability** **Stable under normal conditions.**
- Conditions to avoid** **Direct sunlight, heat, flames, contact with acids.**

11. REACTIVITY DATA

- Conditions to Avoid**
- Strong Oxidizing Agents
 - Open Flame
 - Excess Heat
 - Protect from freezing.

12. TOXICOLOGICAL INFORMATION.

- Information on analogous products shows minimal toxicity concerns.
- Acute Toxicity
- Peroral: Rat LD₅₀ > 2000 mg/kg.

13. ECOLOGICAL INFORMATION

- Waste Disposal Method:** **Dispose of in accordance with local, state and Federal Government guidelines.**
- Disposal Considerations:**
- Does not inhabit bacteria in waste treatment facilities. Polymer is not biodegradable.
 - Product is not RCRA hazardous.
 - Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permissible under applicable rules, regulations, and / or laws governing your location.
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14. TRANSPORT INFORMATION

U.S.D.O.T

Non-Bulk

Marine Pollutant: Not listed.

Proper Shipping Name: Not required.

This information is not intended to convey all specific regulatory or operational requirements / information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16. OTHER INFORMATION

Notice :

Recipients of this Material Safety Data Sheet must make their own assessment of workplace risk as required by other health and safety legislation.

Liability:

The information in this MSDS is correct to the best of our knowledge at the date of publication. It is given in good faith but no warranty is implied with respect to the quality and specification of the product.