

KATUN®

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

| | |
|-----------------------------------|---|
| <u>Product Name</u> | HHP DJ L25500 CYN 775ML Latex |
| <u>Product IDN</u> | 53007 |
| <u>Material Uses</u> | Inkjet Ink |
| <u>Supplier of the SDS</u> | Katun Corporation 10951 Bush Lake Rd Minneapolis, MN 55438 Tel: 952-941-9505 Emergency Phone: (Chemtrec) (800) 424-9300 |
| <u>Date Issued</u> | September 15, 2017 |

2. HAZARD IDENTIFICATION

2.1 Classifications

GHS07

Classification according to GHS

Eye Irritant Cat 2A: H319 Causes serious eye irritation.

GHS08 Health Hazard

Repr Tox Cat 1B: H360 May damage the unborn child

2.2 Label Elements:

Labeling according to GHS

Hazard pictograms



Signal Word: Danger

Hazard Statements:

H319: Causes serious eye irritation.

H360: May damage the unborn child

Precautionary Statements:

PREVENTION:

P201+P202: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

P264: Wash hands/skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor/physician.

P337+P313: IF eye irritation persists: Get medical advice/attention.

P405: Store in a well-ventilated place. Keep container tightly closed.

DISPOSAL:

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.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture
Inkjet printing ink in organic solvents.

| Ingredients | CAS No | EC No | EU Preregistration Number | Percent (%) | Classification GHS (Rev 5) |
|--------------------------|-------------|-------------|---------------------------|-------------|----------------------------|
| DI Water | 7732-18-5 | 231-791-2 | N/A at the moment | 1-60 | - |
| 2-Pyrrolidone | 616-45-5 | 210-483-1 | N/A at the moment | 1-20 | H319/H360 |
| Surfactants | Proprietary | Proprietary | N/A at the moment | <2 | - |
| 2-methyl-1,3-propanediol | 2163-42-0 | 412-350-5 | N/A at the moment | 1-5 | - |
| Polymer | Proprietary | Proprietary | N/A at the moment | 5-10 | - |
| Pigment | Proprietary | Proprietary | N/A at the moment | 1-10 | - |

This is an aqueous ink formulation.

4. FIRST AID MEASURES

4.1 Description

Inhalation

If inhaled move to fresh air. Respiratory irritation may occur, if symptoms develop seek medical attention. If not breathing, give artificial respiration preferably mouth to mouth.

Ingestion

Rinse mouth with water. Give two glasses of water and monitor closely. Call a poison control center, emergency room, or physician before trying to induce vomiting.

Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin Contact

In case of contact, immediately flush skin with soap and plenty of water while removing contaminated clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.

Eye Contact

Do not rub eyes. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Potential Acute Health Effects

Eye Contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin Contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Over Exposure Signs/Symptoms

Eye Contact: No specific data.

Inhalation: No specific data.

Skin Contact: No specific data.

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**5.1 Extinguishing Media**

Suitable Extinguishing Media: foam, carbon dioxide, dry powder, water spray.

5.2 Special Hazards arising from the substance or mixture

Nitrogen oxides, carbon oxides The substances/groups of substances mentioned can be released in case of fire. Under certain conditions in case of fire other hazardous combustion products may be generated.

5.3 Advice for Fire-Fighters

Wear self-contained breathing apparatus with independent air supply.

Protective suit.

5.4 Further Information

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

5.5 NFPA Ratings

Health:1 Flammability: 1 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Move containers from the spill area. Prevent from entering sewers, water courses, basements, or confined areas. Contain and collect spillage with inert absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition- No smoking. Take measures to prevent the buildup of electrostatic charge.

7.2 Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls:

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye/face Protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|-----------------------|
| Color | Cyan |
| Odor | No Data Available |
| Boiling Point/boiling range of ink | No Data Available |
| Melting Point/melting range | No Data Available |
| Freezing Point | No Data Available |
| Specific Gravity | 1.05±0.01 (Water = 1) |
| Vapor Density | Not Applicable |
| Vapor Pressure | No Data Available |
| Relative Density | No Data Available |
| Water Solubility | Soluble |
| Viscosity | Not applicable |
| pH | 8-9 |
| Flash Point | No Data Available |
| Auto-Ignition Temperature | No Data Available |
| Flammable Limits | Not Determined |
| Volatility (w/w) | No Data Available |
| VOCs | No Data Available |
| Oxidizing Properties | No Data Available |

The physical and chemical data given in Section 9 are typical values for this product and are not intended to be product specifications.

10. STABILITY AND REACTIVITY

| | |
|--|---|
| 10.1 Reactivity | No data available |
| 10.2 Chemical Stability | This product is stable under recommended conditions of storage and use. |
| 10.3 Possibility of hazardous reactions | No data available |

| | |
|--|---|
| 10.4 Conditions to avoid | Not compatible with oxidizing agents and strong bases |
| 10.5 Incompatible materials | Strong oxidizing agents, strong bases |
| 10.6 Hazardous decomposition products | Hazardous decomposition products that may be produced if decomposition occurs include gaseous carbon monoxide, carbon dioxide, nitrogen oxides, and/or low molecular weight hydrocarbons. |

11. TOXICOLOGICAL INFORMATION

| | |
|------------------------------------|---|
| 11.1 Routes of Overexposure | Eye, skin, inhalation, and oral ingestion |
| 11.2 Health Hazards: | |
| Acute Health Hazards | Overexposure of the eye surface to ink may generate severe eye irritation. Overexposure of ink contact with the skin may cause irritation and, in some people, swelling and redness. Intentional inhalation to ink vapors may result in respiratory tract irritation. Intentional or accidental oral ingestion may cause an upset stomach. |
| Chronic Health Hazards | No information available |
| Mutagenicity | No information available |
| Carcinogenicity | No information available |
| 11.3 Toxicity: | |
| Acute Toxicity Data | Assessment of acute toxicity: Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion. Ingestion may cause gastrointestinal disturbances. 2-Pyrrolidone LD50 Oral, rat: > 5,000 mg/kg LD50 Skin, rabbit: non-irritant |
| Inhalation | No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard. |
| Irritating | 2-Pyrrolidone Eye irritating: Severe |
| Sensitization | No sensitizing effect |
| Reproductive Toxicity | May damage the unborn Child. |

12. ECOLOGICAL INFORMATION

| | |
|---|-------------------|
| 12.1 Toxicity | No data available |
| 12.2 Persistence and Degradability | No data available |

| | |
|--|---|
| 12.3 Bioaccumulative Potential | No data available |
| 12.4 Mobility in Soil | No data available |
| 12.5 Results of PBT and vPvB Assessment | PBT: Not applicable vPvB: Not applicable |
| 12.6 Other Adverse Effects | No data available |

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods Product

Treatment, storage, transportation and disposal must be in accordance with applicable federal, state/provincial, and local regulations. Do not flush to surface water or sanitary sewer system.

Contaminated Packaging

Dispose of as unused product

14. TRANSPORTATION INFORMATION

Not classified as a dangerous good under transport regulations

| | |
|--|---|
| 14.1 UN Number | Not Regulated |
| 14.2 UN Proper Shipping Name | Not Regulated |
| 14.3 Transport Hazard Class(es) | Not Regulated |
| 14.4 Packaging Group | Not Regulated |
| 14.5 Environmental Hazards | Not Regulated |
| 14.6 Special Precautions for User | Transport and storage of the product in accordance with general precautions and instructions mentioned in this SDS. |

15. REGULATORY INFORMATION

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

California Proposition 65: Not regulated

State Regulations**US. Massachusetts RTK- Substance List**

Listed

2-Pyrrolidone(cas#616-45-5)

US. Pennsylvania RTK- Hazardous Substance

2-Pyrrolidone(cas#616-45-5)

US. Rhode Island RTK- Substance List

Not Regulated

16. OTHER INFORMATION

The information in this Safety Data Sheet (SDS) is believed to be correct to the best of our knowledge, information and belief at the date of its publication. The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. STS inks does not warrant the completeness or accuracy of the information contained herein.

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