

<Material Safety Data Sheet>

21898-1001
- 2001

Too Marker Products Inc.
Ebisu Subaru Bldg. 4F., 20-8, Ebisu 1-chome, Shibuya-ku, Tokyo, Japan
(Phone)03-3440-6141 (Fax)03-3440-6151
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|----------------------|------------------------------------------|------------|
| Product Name: | atyouSpica pen (water based pigment ink) | |
| Component: | Mixed product of followings: | |
| | Glass flakes coated with Silver | |
| | Borosilicate Glass | 65997-17-3 |
| | Silver | 7440-22-4 |
| | Oxidation Tin | 18282-10-5 |
| | Ethylene Glycol | 107-21-1 |
| | Isopropylene Glycol | 67-63-0 |
| | Diethylene glycol monobutyl ether | 112-34-5 |
| | Diethylene Glycol | 111-46-6 |
| | Urea | 57-13-6 |
| | Antifungal Agent | 26172-55-4 |
| | Glycerin | 56-81-5 |
| | Activator | 25086-15-1 |
| | Water | 7732-18-5 |
| | Pigment: | |
| | Black | 1333-86-4 |
| | Blue | 147-14-8 |
| | Red | 57301-22-1 |
| | Yellow | 5567-15-7 |
| | Orange | 6505-28-8 |
| | Pink | 1047-16-1 |
| | Violet | 6358-30-1 |
| | Green | 1328-53-6 |

Physical and Chemical Characteristics

| | |
|-----------------------------|---------------------------------------------------|
| Classification: | Liquid |
| Boiling Point: | Not known |
| Vapor Pressure: | Not known |
| Vapor Density: | Not known |
| Solubility in Water: | Soluble |
| | Glass flakes coated with Titanium are non-soluble |
| Specific Gravity: | Not known |
| Melting Point: | Not Applicable |
| Evaporation Rate: | Not known |
| Odor: | Very little |
| Appearance: | Liquid Ink |

Fire and Explosion Hazard Data

| | |
|----------------------------------------------|---------------------------------------------------------------|
| Flash Point: | Non-flammable |
| Lower Flammable Limit: | |
| Upper Flammable Limit: | |
| Fire extinguishing media: | Powder, carbonic acid gas, or sands |
| Special Fire Fighting Procedure: | Block out fire source and extinguish with extinguishing media |
| Unusual Fire & Explosion Hazards: | None |

Reactivity Data

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|----------------------------------|----------------------------|
| Stability: | Stable in normal condition |
| Conditions to Avoid: | Not known |
| Incompatibility (Avoid): | Not known |
| Hazardous Decomposition: | No |
| Hazardous Polymerization: | No |
| Conditions to Avoid: | Not known |