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**\*\* MATERIAL SAFETY DATA SHEET: Finished Product \*\***

**SECTION 1 – SUBSTANCE & PRODUCT IDENTIFICATION**

**TRADE NAME:** I Max ‘Suspension Tattoo Pigment’  
**CODE:** Makkuro Sumi® Tattoo Colors  
**NAME:** I Max Glycerin  
**EFFECTIVE DATE:** September-2008, Revision 1

**DESCRIPTION**

Viscous liquid. Glycerin is a natural emollient and humectant derived from vegetable oils. It is a by-product of soap manufacturing. It is a clear colorless syrupy liquid. A humectant, and emollient, it absorbs moisture from the air and, therefore helps keep moisture in whatever it is put into. Mixes well with water.

**SECTION II – COMPOSITION OF INGREDIENTS**

| <b>Ingredient</b> | <b>CI NO.</b> | <b>EINECS NO.</b> | <b>CAS NO.</b> | <b>% Percent</b> |
|-------------------|---------------|-------------------|----------------|------------------|
| Glycerin          | N/A           | 200-289-5         | 56-81-5        | > 96             |
| Water (Aqua)      | N/A           | 231-791-2         | 7732-18-5      | >4               |

**SECTION III – HAZARDS IDENTIFICATION**

**APPEARANCE/ODOR:** Colorless, viscous liquid with a mild odor and warm, sweet taste.

**PHYSICAL HAZARDS:** None Known

**UNUSUAL FIRE HAZARD:** None Known

“Empty” containers retain product residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of.

**EFFECTS OF OVEREXPOSURE:**

**Acute:** May cause some dehydration of skin or mild irritation on eye contact. Inhalation of mists may cause irritation (stinging and/or burning sensation) and dehydration of the respiratory systems. Ingestion of this substance may cause headache, restlessness, insomnia, dizziness, vomiting, nausea, diarrhea, and fever.

**Chronic:** None Expected.

**TARGET ORGANS:** None Known

**CARCINOGENICITY:**

According to information currently available, this material is not a carcinogen.



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**SECTION IV – FIRST AID MEASURES**

**EYE CONTACT**

If splashed into eyes, remove contact lens if worn and flush with clear water for fifteen minutes or until irritation subsides. If irritation persists, contact a physician.

**SKIN CONTACT**

Wash skin thoroughly with soap and water. Remove severely contaminated clothing. Seek medical attention in the unlikely event that skin irritation occurs (redness etc.).

**INHALATION**

Remove to fresh air. Get medical attention if breathing is difficult or lung irritation is present.

**INGESTION**

Induce vomiting of conscious patient immediately by giving two glasses of water and pressing finger down throat. Contact physician immediately.

**NOTE(S) TO PHYSICIAN**

Signs and symptoms of Overexposure: Ingestion of large doses of this product may cause hemolysis, hemoglobinuria, hyperglycemia, glycosuria, renal failure, convulsions, narcosis, and paralysis.

**SECTION V – FIRE FIGHTING MEASURES**

**Flash Point:** 390° F (198° C) CC

**Lower Flame Limit:** 0.9%

**Upper Flame Limit:** Not Found

**Autoignition Temperature:** 698°F

**Extinguishing Media**

Alcohol foam, CO<sub>2</sub>, water spray, or dry chemical

**For Fire**

Water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has ignited, use water spray to disperse the vapors and to protect those attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

**NOTE:** The inclusion of the phrase “*water may be ineffective*” is to indicate that although water can be used to cool and protect exposed material, water may not extinguish the fire unless used under favorable conditions by experienced fire fighters trained in fighting types of flammable liquid fires.

**DECOMPOSITION PRODUCTS**

During combustion Carbon Dioxide, Carbon Monoxide, and unidentified organic compounds of unknown hazards may be generated. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.



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**SECTION VI - ACCIDENTAL RELEASE MEASURES**

**For Spill**

Flush with copious amounts of water and use inert absorbent. Dispose of in accordance with applicable regulations.

**SECTION VII - HANDLING AND STORAGE**

**Handling & Storage**

Store at ambient temperature. It may be required to heat material to approximately 100-125° F for pumping. Keep container closed when not in used. Wash thoroughly after handling.

**SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Respiratory Protection**

None required if airborne concentrations are maintained below the TWA/TLV's listed.

**Ventilation:**

Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, flame, or other ignition sources.

**Protective Gloves:**

If needed, use chemical-resistant gloves to avoid prolonged or repeated skin contact.

**Eye Protection:**

Use splash goggles or face shield when eye contact may occur. An eye wash fountain should always be accessible and operation for emergency use.

**Other Protection:**

If needed, use chemical-resistant apron or other impervious clothing to avoid contaminating regular clothing. Safety shower(s) should always be accessible and operational for emergency use.

**Threshold Limit Value(s):** 10 mg/m<sup>3</sup> (mist)

**Note:**

Chemical mixture may act upon the same organ system(s). See CFR 1910.100 (d) (2) and ACGIH Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices Booklet (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.



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**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL APPEARANCE:** Liquid  
**COLOR:** Colorless  
**ODOR:** Viscous liquid with a mild odor and warm, sweet taste.  
**pH:** Essentially Neutral  
**FREEZING/MELTING POINT:** 64° F (18° C)  
**EVAPORATION RATE:** <0.01 (n-Butyl Acetate = 1)  
**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.26  
**SOLUBILITY IN WATER:** 100%  
**PERCENT VOLATILE:** None  
**VAPOR PRESSURE:** <0.001 @ 68° F  
**VAPOR DENSITY (AIR = 1):** 3.2  
**BOILING POINT:** 554° F (290° C)  
**VOLATILE ORGANIC CONTENT:** Not Found  
**MOLECULAR WEIGHT:** Not Found  
**CHEMICAL FORMULA:** CH<sub>2</sub>OHCHOH CH<sub>2</sub>OH

**SECTION X - STABILITY AND REACTIVITY**

**STABILITY:**  
This material is stable and will not react with water.  
**CONDITIONS TO AVOID:**  
Normal precautions should be taken.  
**INCOMPATIBLE MATERIALS:**  
Strong oxidizing agents, acids, and bases.  
**HAZARDOUS POLYMERIZATION:**  
Will not occur.

**SECTION XI - TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY:**  
Acute Oral LD<sub>50</sub> (Rat): 12.6 g/kg  
Acute Dermal LD<sub>50</sub> (Rabbit): Not Found  
Acute Inhalation LC<sub>50</sub> (Rat): Not Found  
**PRIMARY ROUTE(S) OF ENTRY:**  
Inhalation (mist)  
Ingestion  
Skin



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**SECTION XII- ECOLOGICAL INFORMATION**

**BIODEGRADABILITY:** None Found  
**PLANTS AND WILDLIFE:** None Found

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**RCRA:**

When this product becomes a waste, it is classified as a non-hazardous waste under criteria of the Resources Conservation and Recovery Act (40 CFR 261).

**WASTE DISPOSAL:**

Controlled incineration is preferred. Consult applicable regulations.

**EMPTY CONTAINER:**

“Empty” containers retain product residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, SLD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioned, or properly disposed of.

**SECTION XIV - TRANSPORT INFORMATION**

**SHIPPING NAME:** Not D.O.T. Regulated  
**REPORTABLE QUANTITY (RQ):** None  
**EMER. RESPONSE GUIDE:** None Established  
**PACKAGING SIZES:** Bulk, Totes, 55 Gal. Drums

**SECTION XV - REGULATORY INFORMATION**

**CERCLA:**

Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III, Section 304.

**SARA Title III**

Acute Health: No  
Chronic Health: No  
Fire: No  
Sudden Release of Pressure: No  
Reactive: No  
Reportable Quantity: (RQ): None Established

Threshold Planning Quantity (TPQ): None Established



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313 Toxic Chemical: No

**STATE REGULATIONS:**

None Found.

**Note:**

The absence of a state listing does not preclude that this material may be regulated by any state.

**SECTION XVI- SUPPLEMENTAL INFORMATION**

**HMIS RATINGS**

Health: 1  
Flammability: 1  
Reactivity: 0  
Personal Protection: X

**HMIS & NFPA KEY**

0-Minimal  
1-Slight  
2-Moderate  
3-Serious  
4-Severe

**LABEL INFORMATION:**

Attention:  
CAUTION!  
Avoid Breathing Mist  
Avoid with Skin & Eyes  
Keep Container Closed When Not In Use  
For Industrial Use Only

**FIRST AID:**

Eyes: If splashed into the eyes, remove contact lenses if worn and flush with clear water for 15 minutes or until irritation subsides.

**NFPA RATINGS**

Health: 1  
Flammability: 1  
Reactivity: 0  
Specific Hazards: ---

**NFPA SPECIFIC HAZARDS**

POL-Polymerizes under normal  
Conditions  
OXY-Oxidizing Agent  
EXP- Explosive – Heat or shock  
sensitive  
W-Water Reactive



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**SECTION XVII- OTHER INFORMATION**

For more information contact Product Safety at

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It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent exposures,

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