First issue: July 31, 2015
Revised: --
HD White US-051

Safety Data Sheet

1. IDENTIFICATION

Product Name: HD Clear
General Use: May be used for Printing ink.
Product Description: Hardening agent for synthetic resin.
SDS Number: US-051

MANUFACTURER
Company Name: Matsui International Co., Inc.
Address: 1501 West 178th Street, Gardena, CA 90248, U.S.A.
Telephone No.: (310) 767-7812

EMERGENCY TELEPHONE NUMBER: +81 (75) 594-5612 / (310) 767-7812

2. HAZARDS IDENTIFICATION

CLASSIFICATION

Health Hazard:

Serious eye damage/eye irritation: Category 2B

Specific target organ toxicity single exposure:

Category 1 (central nervous system, kidney, heart, respiratory organ)

Specific target organ toxicity repeated exposure:

Category 1(central nervous system, respiratory organ, heart)

Physical Hazard: Not classified.
Signal Word: Danger.
Hazard Statement: Causes eye irritation.
Causes damage to organs < central nervous system, kidney, heart, respiratory organ >.
Causes damage to organs < central nervous system, respiratory organ, heart > through prolonged or repeated exposure.

Symbol:

Precautionary Statements:

Prevention: Do not breathe fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

If exposed: Call a poison center/doctor.
Get medical advice/attention if you feel unwell.

Specific treatment.

Storage: Store locked up

Disposal: Dispose of contents/container in accordance with local / regional / national / international regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	CAS #	Approx. %
Resin	Trade secret	20 – 30
Titanium oxide	13463-67-7	2.5
Solvent naphtha (petroleum), medium aliph.	64742-88-7	1.5
Ethylene glycol	107-21-1	8.5
Non-hazardous and other ingredients below reportable levels	N/A	Balance

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

This product is not considered to be hazardous under OSHA's Hazard Communication Standard.

4. FIRST AID MEASURES

INHALATION:

Remove to fresh air and lie quiet. Seek medical attention as needed.

EYE: Immediately flush eyes with water for at least 15 minutes. Seek medical attention as needed.

SKIN: Wash with mild soap and water.

INGESTION:

Do not induce vomiting. If mouth is contaminated, rinse thoroughly with water. Get a medical attention.

PROTECTION TO FIRST-AIDERS:

Wear personal protective clothing and equipment.

NOTE TO PHYSICIAN:

Treat symptomatically

5.FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Hazardous Combustion Products:	Not available.
Flash Point:	Not available.
Lower Flammable Limit:	Not available.
Upper Flammable Limit:	Not available.
Autoignition:	Not available.
Conditions of Flammability:	Requires this product be dry.
Explosion Data	
Impact Sensitivity:	Not sensitive to mechanical impact.
Static Discharge:	Not sensitive to static discharge.

EXTINGUISHING MEDIA: Use water, dry chemical, or CO_2 gas.

(This product is not combustible under normal conditions due to its aqueous property.)

FIRE FIGHTING INSTRUCTIONS: In case of fire, wear respirator.

6.ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable personal protective equipment as needed.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

For small spill, absorb with dry sand, saw dust or rag, and collect into container for disposal. Wipe the remaining up with rag.

For large spill, dike with soil, blankets or sandbags to prevent from contaminating soil and collect into container with shovel or vacuum. Do not keep the disposal container airtight.

Avoid releasing spilled material into rivers and/or lakes. If material is released to public water, advice local authority.

7.HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Protective Measures:

Wear suitable protective equipment and clothing as needed to prevent the material from contacting skin and eyes. Use only in well-ventilated area. Keep from direct sunlight, heat, and cold. Handle and open containers with care – avoid rough handling or dropping.

Sensitive person must not handle this product.

Advice on General Occupational Hygiene:

Wash thoroughly after handling. Do not eat, drink, or smoke during work.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical Measures Storage Conditions:

Store in a cool and dark place away from direct sunlight. Avoid freezing. Keep container tightly closed. Keep temperature within 5 and 30°C. Use polyethylene or stainless-steel container to protect against corrosion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Ethylene glycol	ACGIH – TLV (STEL)	100 mg/m^3 (as ceiling limit)

EXPOSURE CONTROLS

Occupational Exposure Controls:

Local exhaust ventilation or general ventilation is necessary during indoor operation.

Personal Protection

Respiratory Protection:

In an ill-ventilated area, wear respiratory apparatus.

Hand Protection:

Wear rubber or plastic gloves.

Eye Protection:

Wear safety glasses or goggles.

Skin Protection:

Wear long pants, long sleeves, and boots when applicable.

Hygiene measures:

Provide acceptable eyewash facilities within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Milky white paste.
Odor:	Slight acrylic odor.
pH:	8.5 ± 0.5
Melting Point:	Not available.
Boiling Point:	Not available.
Flash Point:	Not available.
Evaporation rate:	Not available.
Flammability:	If this product is dry, it may be flammable.
Explosive Properties:	Not applicable.
Oxidizing Properties:	Not applicable.

Vapor Pressure:	Not available.
Relative density:	1.17 ± 0.05
Solubility (Water):	Miscible.
Partition Coefficient (n-octanol/water):	Not available.
Auto-Ignition Temperature:	Not applicable.
Decomposition Temperature:	Not available.
Viscosity:	140,000±5,000

10. STABILITY AND REACTIVITY

REACTIVITY:	No specific reactivity under normal condition.
CHEMICAL STABILITY:	Stable under normal handling and using condition.
POSSIBILITY OF HAZARDOUS REACTION:	None.
CONDITIONS TO AVOID:	None.
INCOMPATIBLE MATERIALS:	None.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not available.
Eye Irritation:	Not available.
Skin Irritation:	Not available.
Sensitization:	Not available.
Repeated Dose Toxicity:	Not available.
Chronic Toxicity:	Not available.
Mutagenicity:	Not available.
Carcinogenicity:	Not applicable.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:	Not available.
MOBILITY:	Not available.
PERSISTENCE AND BIODEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Not available.
OTHER ADVERSE EFFECTS:	Not available.

13. DISPOSAL INFORMATION

Comply with all federal, state and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

14.TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT)

Hazardous Materials:	Not regulated.
Hazardous Materials Description and Proper Shipping Name:	Not regulated.
Hazard Class or Division:	Not regulated.
Identification Number:	Not regulated.
Packing Group:	Not regulated.
Label(s) Required:	Not regulated.

SEA TRANSPORT

IMDG

Class:	Not regulated.
Packing Group (PG):	Not regulated.
Marine Pollutant:	Not regulated.

AIR TRANSPORT

ICAO/IATA

Class:	Not regulated.
Packing Group (PG):	Not regulated.
UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.

15.REGULATORY INFORMATION

OSHA STATUS:

This product is not considered to be hazardous under 29 CFR 1910.1200.

TSCA STATUS:

All components on TSCA INVENTORY.

CERCLA REPORTABLE QUANTITY (40 CFR 117, 302):

Not applicable.

SARA TITLE III

Section 302 (40 CFR 355) – Extremely hazardous substance:

Not applicable.

Section 311/312 (40 CFR 370) – Hazard categories:

Immediate (acute) health hazard	N
Delayed (chronic) health hazard	N
Fire hazard	N
Sudden release of pressure	N
Reactive	N

Section 313 (40 CFR 372) – Toxic chemical:

Not applicable.

CONEG – Typical Metals present in ppm:

Cadmium (Cd)	N
Hexavalent Chromium (Cr(VI))	N
Lead (Pb)	N
Mercury (Hg)	N

HMIS Ratings

Health:	1
Flammability:	0
Reactivity:	0
Protection:	G

(0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe)

ENCS (Japan): Components listed.

Please refer to any other federal, state and local regulations.

For specific questions please call to Matsui International Co., Inc. USA 3107677812.

16. OTHER

ABBREVIATIONS

OSHA: The Occupational Safety and Health Administration

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists, Inc.
IMDG: International Maritime Dangerous Goods
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
TSCA: Toxic Substances Control Act
CERCLA:Comprehensive Environmental Response, Compensation and Liability Act of 1980
SARA: Superfund Amendments and Reauthorization Act of 1986
CONEG: the Coalition of Northeastern Governors
ENCS: Existing and New Chemical Substances

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