Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Printgen QP 4400H
General Use:	May be used for printing on textile
Product Description:	Water based ink component
SDS Number:	US-048-MICI

AGENCY

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: (310) 767-7812

2. HAZARDS IDENTIFICATION

CLASSIFICATION

Health Hazard:	Not classified.
Physical Hazard:	Not classified.
Signal Word:	None.
Hazard Statement:	None.
Symbol:	None.
Precautionary Statements:	Powdered material may form explosive dust-air mixture. Slipping hazard. Avoid temperatures above 200°C (392°F)

Potential Health Effects

Eye Contact:	Essentially nonirritating to eyes.
Skin Contact:	Prolonged exposure not likely to cause significant skin irritation.
Skin Absorption:	Prolonged skin contact is unlikely to result in absorption of harmful amounts.
Inhalation:	Dust may cause irritation to upper respiratory tract (nose and throat).
For narcotic effects:	No relevant data found.
Ingestion:	Very low toxicity if swallowed. Swallowing may result in gastrointestinal irritation.
Aspiration hazard:	Based on physical properties, not likely to be an aspiration hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

No	Component(s)	CAS #	Approx. %
A	Hydroxyethyl cellulose	9004-62-0	>=86.0
B	Sodium acetate	127-09-3	<=7.5
C	Water	7732-18-5	<=5.0
C	Cellulose	9004-34-6	<=1.5

4. FIRST AID MEASURES

General advice:	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Inhalation:	Move person to fresh air; if effects occur, consult a physician.
Skin Contact:	Wash skin with plenty of water.
Eye Contact:	Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur,

consult a physician, preferably an ophthalmologist.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of immediate medical attention and special treatment needed:

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.

Special hazards arising from the substance or mixture

Hazardous Combustion Products:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards:

Do not permit dust to accumulate. When suspended in air dust can pose an explosion hazard. Minimize ignition sources. If dust layers are exposed to elevated temperatures, spontaneous combustion may occur. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

Advice for firefighters

Fire Fighting Procedures:

Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents.

Special Protective Equipment for Firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Material becomes slippery when wet. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions:

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up:

Sweep up. Use care to minimize generation of airborne dust. Do not use water for cleanup. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Handling

General Handling:	Avoid contact with eyes. Wash thoroughly after handling. Good housekeeping and controlling of dusts are necessary for safe handling of product. No smoking, open flames or sources of ignition in handling and storage area. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Keep away from heat, sparks and flame. Powdered material may form explosive dust-air mixture. Keep container closed. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.
Storage	Store in a dry place. Protect from atmospheric moisture.
Shelf life:	Use within 36 Months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	List	Type	Value
Cellulose	ACGIH	TWA	10 mg/m3
	OSHA Table Z-1	PEL Respirable fraction.	5 mg/m3
	OSHA Table Z-1	PEL Total dust.	15 mg/m3

Personal Protection

Eye/Face Protection:	Use safety glasses (with side shields).
Skin Protection:	No precautions other than clean body-covering clothing should be needed.
Hand protection:	Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.
Respiratory Protection:	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Particulate filter.
Ingestion:	Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

Engineering Controls

Ventilation:	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State	Powder.

Color	White.
Odor	Mild.
Odor Threshold	No test data available.
pH	6.0 - 7.0 Literature.
Melting Point	No test data available.
Freezing Point	Not applicable.
Boiling Point (760 mmHg)	Not applicable.
Flash Point - Closed Cup	No test data available.
Evaporation Rate (Butyl Acetate = 1)	No test data available.
Flammability (solid, gas)	No.
Flammable Limits In Air	
Lower:	No test data available.
Upper:	No test data available.
Vapor Pressure	Not applicable.
Vapor Density (air = 1)	Not applicable.
Specific Gravity (H2O = 1)	0.4 - 0.6 Literature.
Solubility in water (by weight)	completely miscible with water.
Partition coefficient, noctanol/water (log Pow)	No data available for this product.
Autoignition Temperature	> 400 °C (> 752 °F) Literature.
Decomposition Temperature	No test data available.
Explosive properties	No data available.
Oxidizing properties	No data available.
Molecular Weight	No test data available.
Percent Volatiles	No data available.

10. STABILITY AND REACTIVITY

REACTIVITY:	No dangerous reaction known under conditions of normal use.
CHEMICAL STABILITY:	Thermally stable at typical use temperature. Hygroscopic.
POSSIBILITY OF HAZARDOUS REACTIONS:	
	Polymerization will not occur.
CONDITIONS TO AVOID:	Avoid temperatures above 200º C (392°F) Exposure to elevated temperatures can cause product to decompose. Avoid static discharge. Avoid moisture.
INCOMPATIBLE MATERIALS:	Avoid contact with oxidizing materials.
HAZARDOUS DECOMPOSITION PRODUCTS:	
	Decomposition products depend upon temperature, air supply and the presence of other materials.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Single dose oral LD50 has not been determined.
	For the major component(s): Estimated. LD50, rat > 8,700 mg/kg
Dermal:	The dermal LD50 has not been determined.
Inhalation:	As product: The LC50 has not been determined.
Eye damage/Irritation:	Essentially nonirritating to eyes.
Skin corrosion/Irritation:	Prolonged exposure not likely to cause significant skin irritation.
Sensitization:	
Skin	For the major component(s): Did not cause allergic skin reactions when tested in humans.

Respiratory	No relevant data found.
Repeated Dose Toxicity:	Based on available data, repeated exposures are not anticipated to cause significant adverse effects.
Chronic Toxicity and Carcinogenicity:	Similar cellulosics did not cause cancer in long-term animal studies.
Developmental Toxicity:	Similar cellulosics did not cause birth defects or other toxic effects to the fetus in laboratory animal studies.
Reproductive Toxicity:	In animal studies, a similar cellulosic has been shown not to interfere with reproduction.
Genetic Toxicity:	Similar cellulosics were negative in both in vitro and animal genetic toxicity studies.

12. ECOLOGICAL INFORMATION

TOXICITY:	For the major component(s): Not expected to be acutely toxic to aquatic organisms. For the minor component(s): Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50>100mg/L in the most sensitive species tested)
TOXICITY TO MICRO-ORGANISMS:	IC50; Bacteria, 16h:>1,000mg/l
PERSISTENCE AND DEGRADABILITY:	For the major component(s): No appreciable biodegradation is expected. For the minor component(s) Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.
BIOACCUMULATIVE POTENTIAL:	
Bioaccumulation	Based on information for component(s): Bioconcentration potential is low (BCF <100 or Log Pow<3)
MOBILITY IN SOIL:	For the major component(s):, Expected to be relatively immobile in soil (Koc > 5000)., For the minor component(s):. Potential for mobility in soil is very high (Koc between 0 and 50)

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

SEA TRANSPORT

IMDG

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

Marine Pollutant: Not applicable.

AIR TRANSPORT

ICAO/IATA

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

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 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:	C

(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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