**MATERIAL SAFETY DATA SHEET**

Date Revised: 1/4/2012

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**SECTION I - PRODUCT INFORMATION**

PRODUCT NAME: **IC1971B and 1971QD**

DATE: December 18, 2009

HMIS CODES: H F R P V.O.C. 179.55 Grams/liter

1 1 0 V.O.C. 17.50% By Weight

**Company Identification**

ImTech Technologies, LLC

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U.S.A.

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SECTION II - HAZARDOUS INGREDIENTS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | OCCUPATIONAL EXPOSURE LIMITS | | | VAPOR PRESSURE |
| CHEMICAL NAMES | CAS# | OSHA PEL ACGIH TLV | | | WT.% mm Hg @ Temp |
| Gamma Butyrolactam  Carbon Black Pigment | 616-45-5  1333-86-4 | | 3.5mg/M3 | TWA 3.5mg/M3 | > 10  <10 |

[These exposure limits are applicable when the carbon black is in powder form ; the carbon black in these inks are bound in the liquid ink matrix] Please see Section XI for more details.

**SECTION III - PHYSICAL DATA**

VAPOR DENSITY: 4.1

EVAPORATION RATE: 0.1 (BuAcet.=1)

WEIGHT PER GALLON: 8.55 Lbs. % VOLATILE RATE: 17.50

SOLUBILITY IN WATER: > 95% Dispersability < 5%

pH: 7 to 8

APPEARANCE & ODOR: Black Liquid; Mild odor.

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Greater than 200ºF METHOD USED: TCC FLAMMABLE LIMITS IN AIR BY VOLUME: N/E

EXTINGUISHING MEDIA: Not flammable under ordinary conditions. Use water spray, foam, or dry chemical. SPECIAL FIRE FIGHTING PROCEDURES & PRECAUTIONS: None.

UNUSUAL FIRE & EXPLOSION HAZARDS: None

SECTION V - HEALTH HAZARD DATA

Signs & Symptoms of Exposure

EYE CONTACT: May cause slight to moderate irritation on direct contact. SKIN CONTACT: N/E

INHALATION: N/E

INGESTION: Harmful if swallowed.

Medical Conditions Aggravated by Exposure: N/E EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: Flush immediately with plenty of water for 15 minutes. Consult a physician if irritation persists.

SKIN CONTACT: Wash with soap and water.

INHALATION: Remove to fresh air and provide oxygen if breathing is difficult.

INGESTION: Induce vomiting. Consult a physician or poison control center immediately.

Note to Physician: Other than above, symptomatic treatment only is required.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE CONDITIONS TO AVOID: None INCOMPATIBILITY: (Materials to avoid) None HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Avoid eye or skin contact. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean spill, flush area sparingly with water or use an absorbent. Avoid run-off into storm sewers and ditches, which lead to natural waterways. All cleanup and disposal should be carried out in accordance with federal, state and local regulations. If required, state and local authorities should be notified.

WASTE DISPOSAL METHOD: Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal, state, or local disposal authorities for approved procedures.

SECTION VIII - SPECIAL PROTECTION PROCEDURES

RESPIRATORY PROTECTION: None required. VENTILATION:

LOCAL EXHAUST: Recommended. MECHANICAL (GENERAL): Acceptable

PROTECTIVE GLOVES: Neoprene or rubber. EYE PROTECTION: Chemical safety goggles.

OTHER PROTECTIVE EQUIPMENT: For operations where spills or splashing can occur, use impervious body covering and boots. A safety shower and eye bath should be available.

SECTION IX - SPECIAL PRECAUTIONS

Store in a cool dry place with adequate ventilation. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before re-use.

SECTION X - TRANSPORTATION REQUIREMENTS

Department of Transportation Classification: None

D.O.T. Proper Shipping Name: Ink - None

SECTION XI TOXICOLOGICAL INFORMATION

Carbon Black belongs in Section A4 of the ACGIH Carcinogen Classification Carbon Black is listed under group 2B of the IARC Carcinogen Classification Carbon Black is considered a Carcinogen under OSHA Regulations.

Special Note: These liquid inks do not contain any free dry carbon particles that could be air borne while handling. Carbon Black is classified as a carcinogen by the IARC [possibly carcinogenic to humans – Group 2B] and by the State of California under Prop. 65. In their evaluation of Carbon Black, both organizations indicate that exposure

to carbon black, per se. does not occur when it remains bound within a product matrix, specifically rubber, ink and

paint. Carbon is present only in a bound form in these inks. None of the other ingredients in these inks are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Date: February 15, 2010

The information contained herein is, to the best of our knowledge and belief, accurate. Since the condition of handling and use are beyond our control, we assume no liability for loss or injury resulting from the use of this product or the information herein. All chemicals may present unknown health hazards and should be used with caution. Safe use of this product is the responsibility of the user. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunto with respect to the information contained herein or the product to which the information refers

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