SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Name: #3 Black Ink
General Use: Marking Ink
Manufacturer: Pannier Corporation, 207 Sandusky Street, Pittsburgh, PA. 15212
Telephone: 412-323-4900

SECTION 2 - HAZARDS IDENTIFICATION

WARNING: HEALTH

Risk Statements: Irritating to eyes, respiratory system, throat and skin. Repeated exposure may cause skin dryness or cracking. Harmful if swallowed – can cause nausea, vomiting and narcosis.

Safety Statements: Avoid contact with skin and eyes. Keep container tightly closed. No smoking!

Potential Health Effects:
Prolonged or repeated contact may dry and irritate skin. Eye contact will be extremely irritating. Chronic: None currently known.

Emergency and First Aid Procedures:
INHALATION: Remove to fresh air, restore breathing. Treat symptoms. Consult a physician. Eyes: Flush immediately with water for 15 minutes. See a physician. Skin: Wash with soap and water. Remove contaminated clothing. Consult a physician if irritation persists. Ingestion: Drink water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately.

SEE SECTIONS 8, 11 - The hazards are based on 100% of the contained materials. They will be reduced by their lower concentration.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>CASE NUMBER</th>
<th>WEIGHT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL AND ETHYL ALCOHOL</td>
<td>67-63-0</td>
<td>30</td>
</tr>
</tbody>
</table>

*No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 is present.

SECTION 4 – FIRST AID MEASURES

INHALATION: IRRITATION OF NOSE THROAT, DIZZINESS, HEADACHE AND NAUSEA.
EYES: EYE CONTACT MAY BE MODERATELY IRRITATING.
SKIN: DERMITITUS MAY RESULT.
INGESTION: CAN CAUSE NAUSEA, VOMITING AND NARCOSIS.

SECTION 5 – FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA: ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG
SPECIAL FIREFIGHTING PROCEDURES: WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT EXPLOSION WHEN EXPOSED TO EXTREME HEAT. FULL PROTECTIVE EQUIPMENT MAY BE NEEDED TO PROTECT FIREFIGHTERS FROM HAZARDOUS COMBUSTION PRODUCTS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: DURING EMERGENCY CONDITIONS, OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD.
SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE ALL SOURCES OF VAPOR IGNITION. VENTILATE AREA. AVOID BREATHING VAPORS. REMOVE BY SUITABLE INERT ABSORBING MATERIAL.

SECTION 7 – HANDLING & STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: KEEP CONTAINERS CLOSED WHEN NOT IN USE, AND KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. AVOID EXCESSIVE INHALATION OF VAPOR OR MIST.

OTHER PRECAUTIONS
IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH CARE AND AVOID UNNECESSARY CONTACT. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY. HMIS PERSONAL PROTECTIVE EQUIPMENT IS DEPENDENT UPON CONDITIONS OF USE.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>OCCUPATIONAL EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ETHYL ALCOHOL</td>
<td>OSHA PEL: 400 PPM</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV: 400 PPM</td>
</tr>
</tbody>
</table>

CONTROL MEASURES: GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS.


PROTECTIVE CLOTHING: USE OF RUBBER OR PLASTIC GLOVES RECOMMENDED FOR PROLONGED OR REPEATED CONTACT.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: USE PROTECTIVE CREAM WHEN SKIN CONTACT IS LIKELY.

EYE PROTECTION: SAFETY EYEWEAR SHOULD BE AVAILABLE TO AVOID ACCIDENTAL CONTACT

WORK / HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, DRINKING OR SMOKING. NO SMOKING IN WORK AREA.

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

BOILING RANGE: 147 to 165° F.
SPECIFIC GRAVITY (H2O=1): 1.0
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
MATERIAL V. O. C.: 2.94 LB/GL (352 G/L)
VAPOR PRESSURE: 37.0 mm Hg @ 68 deg. F
SOLUBILITY IN WATER: SOLUBLE
APPEARANCE AND ODOR: THIN COLORED LIQUID, ALCOHOLIC
FLASH POINT: 53 ° F
METHOD USED: CLOSED CUP
FLAMMABLE LIMITS IN AIR BY VOLUME - LOWER: 1.5% UPPER: 36.5%

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID)
CONTACT WITH STRONG ACIDS, ALKALIES OR OXIDIZERS
HAZARDOUS DECOMPOSITION OR BYPRODUCTS
MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE, AND OTHER HAZARDOUS DECOMPOSITION PRODUCTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INDIVIDUAL INGREDIENT HAZARDS
ISOPROPYL ALCOHOL: LD50, 4,700 – 5,800 MG/KG – RAT SKIN ABSORPTION. LD50, 13,000 MG/KG - RABBIT. INHALATION: 19,000 PPM – RAT (8 HOURS)

CARCINOGENICITY: NTP? NO? IARC MONOGRAPHIS? NO OSHA REGULATED? NO
NONE CURRENTLY KNOWN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
RESPIRATORY IRRITATION AND DERMITITIS

WASTE DISPOSAL METHOD: INCINERATION IS PREFERRED, IN COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. REFER TO SDS CAUTION INFORMATION BEFORE ATTEMPTING CLEANUP.

DOT PROPER SHIPPING NAME: FLAMMABLE LIQUID
PACKING GROUP: II
DOT HAZARD CLASS: 3
DOT UN/NA NUMBER: 1210
HAZARD SUBCLASS: N/A
EMERGENCY RESPONSE GUIDE NO. 26

THE LISTED TRANSPORTATION INFORMATION APPLIES TO GROUND TRANSPORT IN GALLON OR LARGER QUANTITIES AND MAY NOT APPLY TO VARIATIONS DUE TO CHANGES IN PACKAGE SIZE, MODE OF SHIPMENT, OR OTHER REGULATORY DESCRIPTORS.

DISCLAIMER
THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN WERE OBTAINED FROM SOURCES BELIEVED TO BE GENERALLY RELIABLE, BUT WE MAKE NO WARRANTY CONCERNING THEIR ACCURACY OR SUFFICIENCY, AND WE WILL NOT BE HELD LIABLE FOR CLAIMS RELATING TO ANY PARTY’S USE OF OR RELIANCE ON INFORMATION OR RECOMMENDATIONS CONTAINED HEREIN.

DATE: 01/01/18
HMIS CODES: H – 2, F –3, R – 0, P -

LEGEND: NDA – NO DATA AVAILABLE N/D - NOT DETERMINED N/E – NOT ESTABLISHED