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MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

CHEMICAL NAME: Black Matrix Ink TRADE NAME: KNUSA "A"
CHEMICAL FAMILY: Fatty Acid Ester FORMULA: Proprietary

HAZARD RANKING: HMIS HAZARD CLASS:
0 - Least Health = 1
1 - Slight Flammability = 1
2 - Moderate Reactivity = 0
3 - High
4 - Extreme

SECTION II - HAZARDOUS INGREDIENTS

None Per 29 CFR PART 1910.1200

Contains no ingredient known to retain hazardous properties or carcinogens appearing on any government lists.

SECTION III - PHYSICAL DATA

BOILING POINT: 680 Deg F SPECIFIC GRAVITY: .973
VAPOR PRESSURE MMHG @ 180 Deg C: 1.0 VOLUME % VOLATILE: None
VAPOR DENSITY (AIR - 1): 9.74 APPEARANCE & ODOR: Black/Mild
SOLUBILITY IN WATER: Negligible

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 365 degrees F (COC)
FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: Use water fog, foam, CO2, or dry chemical to extinguish NFPA Class II fires

01300, 01327, 01331, 01333, 01334, 01335, 01336, 01339

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters should be equipped with self-contained breathing apparatus

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

SECTION V - HEALTH HAZARD DATA

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE

INHALED: None Expected

CONTACT WITH SKIN OF EYES: May cause eye irritation and drying of the skin

ABSORBED THROUGH SKIN: None expected

SWALLOWED: None expected

HEALTH EFFECTS OR RISKS FROM OVEREXPOSURE

ACUTE: None Known

CHRONIC: None Known

EMERGENCY AND FIRST AID PROCEDURES:

For prolonged skin contact, wash the affected skin areas thoroughly with soap and water. Remove and launder contaminated clothing before reuse. If ingested, DO NOT induce vomiting. Get medical attention. Remove to fresh air.

SECTION VI - REACTIVITY DATA

STABILITY: [] Unstable [x] Stable

CONDITIONS TO AVOID: Excessive heat, sparks, or open flame. Keep material covered and free from exposure to air to avoid oxidation.

INCOMPATIBILITY: Strong chemical oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Burning this ink will release oxides of carbon and nitrogen

HAZARDOUS POLYMERIZATION: [] May occur [x] Will not occur

CONDITIONS TO AVOID: N/A

01300

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SECTION VII - LEAK AND DISPOSAL PROCEDURES

SPILL AND LEAK PROTECTION PROCEDURES:

Soak up spill and or leak with sawdust, earth, or other suitable absorbent and scoop into closed containers. Wash spill area with plenty of water.

WASTE DISPOSAL METHOD:

Landfill or incinerate in accordance with applicable local, state, and federal environmental regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Approved respirator for organics vapors if local exhaust insufficient to control fumes.

VENTILATION: Mechanical (general) ventilation is acceptable.

EYE PROTECTION: Safety glasses or goggles with side shields

PROTECTIVE CLOTHING: Impervious clothing where skin contact is unavoidable along with rubber gloves for protection. No eating, drinking, or smoking while handling this product.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

In accordance with good industrial work practices. No eating, drinking, or smoking while handling this product. Do not store near excessive heat or open flame. Keep in closed or covered container.

OTHER PRECAUTIONS: None known

EMPTY CONTAINERS: Dispose of according to applicable local, state or federal environmental regulations.

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