

10/31/01

US DEPARTMENT OF LABOR

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

MATERIAL SAFETY DATA SHEET

SECTION I - GENERAL DATA

LOES ENTERPRISES INC.
1457 IGLEHART AVE.
ST.PAUL,MN. 55104

PRODUCT NAME: Pad Ink
PRODUCT NUMBER: VI417 series
CHEMICAL FAMILY: KETONE

EMERGENCY # (651)646-1385
(800)255-3924

HAZARD RATINGS: HEALTH:2
FIRE:2
REACTIVITY:0

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | CAS# | OSHA-PEL | ACGIH-TLV |
|---------------|----------|----------|-----------|
| Cyclohexanone | 108-94-1 | 50 ppm | 25 ppm |

SECTION III- PHYSICAL DATA

BOILING POINT: 155.6 deg. C
VAPOR PRESSURE (mm Hg. at 20deg.C): 3.95
VAPOR DENSITY (AIR = 1): 34
SPECIFIC GRAVITY: VARIOUS
PERCENT VOLATILE VOLUME: VARIOUS
SOLUBILITY IN WATER: 5% at 30 deg. C
EVAPORATION RATE (BUTYL ACETATE = 1): <1
APPEARANCE AND ODOR: various color
PEPPERMINT-LIKE ODOR

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT 46 C TCC FLAMMABLE LIMITS LEL:UEL 1.1 : 12.75

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical,

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and standard fire fighting protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS: Vapors may be ignited by pilot lights or other ignition sources remotely located from material handling point.

N/A = NOT APPLICABLE N/D = NOT DETERMINED

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SECTION V - REACTIVITY DATA

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|-----------------------------------|---|
| STABILITY: | Stable |
| HAZARDOUS POLYMERIZATION: | Will not occur |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Carbon dioxide, carbon monoxide, various hydrocarbons, |
| CONDITIONS TO AVOID: | Excessive heat, poor ventilation |
| INCOMPATIBILITY: | Strong oxidizing agents |

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SECTION VI - SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE OF SPILL: Eliminate all ignition sources.
Ground handling equipment to prevent sparking. Dike area to contain spill, salvage as much as possible for reuse, use absorbant to clean up remainder or small spills

WASTE DISPOSAL METHOD: In accordance with local, state, and federal regulations
CYCLOHEXANONE IS A LISTED HAZARDOUS WASTE 40CFR261 WASTE # IS U057

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SECTION VII - HEALTH DATA

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ROUTES OF ENTRY: Eyes: possible Skin: possible
Inhalation: most likely Ingestion: not likely

EFFECTS OF OVEREXPOSURE: EYES - May cause irritation
SKIN - May cause irritation, defatting, or dermatitis
INHALATION - May cause irritation of respiratory tract, narcosis, headaches, nausea, dizziness, fatigue or unconsciousness.
INGESTION - May cause nausea, cramps, and diarrhea

FIRST AID: EYES - Immediately flush with plenty of water. Get medical attention.
SKIN - Remove contaminated clothing and launder before reusing. Wash affected area with plenty of soap and water.
INHALATION - Remove to fresh air. If necessary, give artificial respiration. Get medical attention.
INGESTION - DO NOT INDUCE VOMITING and dilute by drinking water. Never give liquids to an unconscious person. Get medical attention.

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SECTION VIII - SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator suitable for concentrations and types of air contaminants encountered
VENTILATION: Local mechanical exhaust ventilation recommended
GLOVES: Polyvinyl alcohol
EYE PROTECTION: Chemical goggles/glasses/face shield
OTHER EQUIPMENT: Safety shower and/or eye wash station

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SECTION IX - SPECIAL PRECAUTIONS

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HANDLING AND STORAGE PRECAUTIONS: Keep container air tight in a dry area away from heat and water when not in use. Practice "good" industrial housekeeping and hygiene.

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SECTION X - ADDITIONAL INFORMATION

N/D

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THIS INFORMATION IS TAKEN FROM SOURCES OR BASED UPON DATA BELIEVED TO BE RELIABLE; LOES ENTERPRISES INC.; MAKES NO WARRANTY AS TO THE ABSOLUTE CORRECTNESS OR SUFFICIENCY OF ANY OF THE FOREGOING OR THAT ADDITIONAL OR OTHER MEASURES MAY NOT BE REQUIRED UNDER PARTICULAR CONDITIONS.