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MATERIAL SAFETY DATA SHEET

IN CASE OF TRANSPORTATION EMERGENCY (Spill, Leak, Fire, Exposure, Accident)
Call CHEMTREC 1-800-424-9300 (24 Hour)

SECTION 1: IDENTIFICATION

Name: PEN IMAGE REMOVER

Revision 2/26/2004

Product Number 6024021002

Size Felt tipped writing pen.

Formula: Mixture

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>C.A.S. #</u>	<u>INGREDIENTS</u>	<u>%</u>
100-51-6	BENZYL ALCOHOL	10- 30
109-99-9	TETRAHYDROFURAN	30- 50
7664-39-3	HYDROFLUORIC ACID	5- 10
7732-18-5	WATER	10- 30

<u>EXPOSURE LIMITS</u>	<u>OSHA</u>		<u>ACGIH</u>		<u>CANADA</u>	
	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>
BENZYL ALCOHOL	None	None	None	None	None	None
TETRAHYDROFURAN	200 ppm	250 ppm	200 ppm	250 ppm	200 ppm	250 ppm
HYDROFLUORIC ACID	3.0 ppm	3.0 ppm				
WATER	None	None	None	None	None	None

Source of Exposure Limit Data:

OSHA: Occupational Safety and Health Administration

ACGIH: American Conference of Governmental Industrial Hygienists

CANADA: Province of Alberta's Occupational and Health and Safety Act.

ADDITIONAL EXPOSURE INFORMATION

<u>CAS. NUMBER</u>	<u>SKIN DESIGNATION *</u>			<u>CARCINOGENS</u>			<u>PRIMARY HAZARD</u>	<u>IDLH (ppm)</u>
	<u>OSHA</u>	<u>ACGIH</u>	<u>CANADA</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>		
100-51-6	No	No	No	No	No	No		Unknown
109-99-9	No	No	No	No	No	No	Sensory irritation	20,000
7664-39-3	No	No	No					
7732-18-5	No	No	No	No	No	No	Not classified	None

* For substances designated as a 'Skin' hazard, protective measures are recommended to prevent or reduce skin absorption. These measures may include the use of gloves, aprons, goggles or other equipment, as well as engineering controls or work practices.

SECTION 3: HAZARDS IDENTIFICATION

EYES CONTACT:

May cause moderate eye irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

May cause moderate skin irritation: signs/symptoms can include redness, swelling, itching.

INHALATION:

Prolonged or repeated contact above recommended guidelines may cause: CENTRAL NERVOUS SYSTEM DEPRESSION: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. IRRITATION (upper respiratory): signs/symptoms can include

soreness of the nose and throat, coughing and sneezing.

INGESTION:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.-- Repeated ingestion may cause: Central Nervous System Effects: signs symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors, convulsions.

H.M.I.S. CODES:**HEALTH: 3****FIRE: 1****REACTIVITY: 0****PROTECTION: D****SECTION 4: FIRST AID MEASURES****EYE CONTACT:**

Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Contact physician immediately.(preferably an ophthalmologist)

SKIN CONTACT:

Flush skin with large amounts of water. If irritation persists, get medical attention.

INHALATION:

If symptoms occur, remove person to fresh air. If symptoms continue, call a physician.

INGESTION:

If swallowed do NOT induce vomiting. Give victim two glasses of water. Get medical attention immediately. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES**Flash point (F) :** n/d**FLAMMABILITY LEL- N/D UEL- N/D****Extinguishing media:** FOAM, DRY CHEMICAL, CARBON DIOXIDE**Special fire fighting procedures :**

Wear full protective clothing, including helmet, self-contained , positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

Unusual fire and explosion hazards :

No unusual fire or explosion hazards are anticipated.

NATIONAL FIRE PROTECTION ASSOC. CODES**HEALTH: 3****FIRE: 1****REACTIVITY: 0****SPECIAL: NONE****SECTION 6: ACCIDENTAL RELEASE MEASURES****SPILL RESPONSE:**

Observe precautions from other sections. Collect spilled material.

SECTION 7: HANDLING AND STORAGE

Store in well ventilated area. Keep container tightly closed. Remove and wash contaminated clothing immediately. Do not store near heat. Do not store food, drink, or tobacco in area where they may become contaminated with this material. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: Avoid eye contact. SKIN PROTECTION: Avoid skin contact. VENTILATION PROTECTION: Provide sufficient ventilation to maintain emissions below recommended exposure limits. RESPIRATORY PROTECTION: Avoid breathing of vapors. PREVENTION OF ACCIDENTAL INGESTION: Wash hands after handling and before eating or use of tobacco products

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling point (F) : 210
Melting point: N/A
Percent volatile by volume : 70
Evaporation rate: <1 (N-Butyl Acetate=1)
Specific gravity (water = 1) : 1.12
Appearance : Liquid, clear.

Volatile Organic Compounds: N/D
Vapor pressure: 86 MM Hg
Vapor density: 3.0 (air =1)
Solubility in water: SOLUBLE
pH: 5
Odor: Light odor of alcohol

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable
Hazardous polymerization: Will not occur
Incompatibility (materials to avoid): None known
Hazardous decomposition products: Carbon monoxide and carbon dioxide, hydrogem fluoride.

SECTION 11: DISPOSAL CONSIDERATIONS

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Combustion products will include hydrogen fluoride. Empty pens may be disposed of in a sanitary landfill. -- U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous). Since regulations vary, consult applicable regulations or authorities before disposal. -- SARA HAZARD CLASS: FIRE: No -- PRESSURE: No -- REACTIVITY: No -- ACUTE: Yes -- CHRONIC: Yes

SECTION 12: TRANSPORTATION INFORMATION

SHIPPING NAME: NOT REGULATED MATERIAL

UN ID-#: N/A

PACKING GROUP: N/A

MAJOR CLASS: N/A

PRIMARY LABEL: N/A

MINOR CLASS: N/A

SECONDARY LABEL: N/A

REMARKS: NOT REGULATED MATERIAL

* Reference: CFR 49, Table 172.102 (highway)

SECTION 13: REGULATORY INFORMATION

<u>CAS. NUMBER</u>	<u>CERCLA</u>	<u>SARA-EHS</u>	<u>SARA-313</u>	<u>RCRA</u>	<u>CAL-PROP 65</u>	<u>N.J.</u>	<u>FLA.</u>
100-51-6	No	No	No	No	No	No	No
109-99-9	Yes	No	No	Yes	No	No	Yes
7664-39-3	No	No	No	No	No	Yes	Yes
7732-18-5	No	No	No	No	No	No	No

* Specific CAS Number references from these regulatory tables:

CERCLA: 40 CFR. Table 302.4

SARA-EHS: 40 CFR. 355 Appendices A _B

SARA-313: 40 CFR. section 372.65

RCRA: 40 CFR. section 261.3

CAL-PROP 65: California Proposition 65, Developmental and Reproductiv

New Jersey Right to Know

Florida Right to Know

SECTION 14: OTHER INFORMATION

Comments: None

The data in this Material Safety Data form relates to the specific material designated herein and to the standard use of same in combination with other materials or processes. The hazards covered are believed to be those most likely to occur in the reasonable, contemplated, or ordinary use of these chemicals. No warranty is made or implied in respect of other hazards which may occur as a result of unreasonable, abnormal, or unusual usage, or non-standard application of these materials. The information accumulated herein is believed to be accurate, but GraphLine Inc. expressly denies any warranty to such effect. Customers or recipients are advised to confirm, in advance that the information is current, applicable and suitable to their circumstances. This information is furnished as a service only.