MATERIAL SAFETY DATA SHEET

WESTERN LITHOTECH
3433 Tree Court Industrial Blvd.
St. Louis, MO 63122

Product: JET BLACK DEVELOPER
MSDS No: WESTERN / DA11
Date: February 3, 1992
Revised: January 3, 1994

National Paint and Coatings Association
Hazardous Material Identification System

<table>
<thead>
<tr>
<th>HEALTH HAZARD</th>
<th>1 - Slight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY HAZARD</td>
<td>2 - Moderate</td>
</tr>
<tr>
<td>REACTIVITY HAZARD</td>
<td>0 - Minimal</td>
</tr>
<tr>
<td>PERSONAL PROTECTION</td>
<td>B - Glasses, Gloves</td>
</tr>
</tbody>
</table>

SECTION I. MATERIAL IDENTIFICATION

Trade/Material Name: JET BLACK DEVELOPER

Manufacturers: REGULAR PHONE NUMBER
Phone: 314-225-5031

24 HOUR EMERGENCY PHONE NUMBER:
Only for a chemical emergency involving an accident, spill, leak, fire, or exposure.
Chemtrec - 800-424-9300
(International - 202-483-7615)

SECTION II. INGREDIENTS AND HAZARDS

Ingredient Name: CAS Number: Percent: Exposure Limits: TWA: STEL:

HAZARDOUS INGREDIENTS:

ETHYLENE GLYCOL* 107-21-1 6.55 --- ---
CYCLOHEXANONE 108-94-1 5.30 25 PPM ---
CYCLOHEXANOL 108-93-0 3.00 50 PPM ---
GLACIAL ACETIC ACID 64-19-7 2.70 10 PPM ---
DIPROPYLENE GLYCOL METHYL ETHER 20324-32-7 1.60 100 PPM 150 PPM
PROPYLNE GLYCOL METHYL ETHER ACETATE 108-65-6 1.60 --- ---
PHOSPHORIC ACID* 7664-38-2 LESS THAN 1.0 1 MG/M² 3 MG/M²
KEROSENE 6008-20-6 LESS THAN 1.0 --- ---

OTHER INGREDIENTS:

GUM ARABIC 9000-01-5
SODIUM SILICATE 1344-09-8
CARBON BLACK 1333-85-4
TALC 14807-96-6
OLEIC ACID 112-80-1
BUTYRROLACTONE 98-48-0
PRESERVATIVE
FRAGRANCE
SURFACTANT
STARCH
DEIONIZED WATER

*INGREDIENT SUBJECT TO REPORTING OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 C.F.R. PART 372.45.

WESTERN LITHOTECH

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SECTION III. PHYSICAL DATA

Appearance and Odor: BLACK, VISCOS LIQUID; PUNGENT ODOR.
Boiling point: 199-212 °F
Vapor pressure: N/A
Water solubility (%): APPRECIABLE
Vapor density (air=1): N/A
pH: 3.9
Evaporation rate: (BUTYL ACETATE = 1) LESS THAN 1
Specific gravity (H₂O=1): 1.24
V.O.C. Content: 2.36 POUNDS V.O.C. PER GALLON OF PRODUCT

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point (method): 135 °F (ASTM D-93)
Extinguishing Media: CO₂, DRY CHEMICAL, FOAM
Autoignition Temp: N/A
Unusual fire or explosion hazards: NONE
Special fire-fighting procedures: NONE
AVOID OPEN FLAME AND ELECTRICAL SPARKS.

SECTION V. REACTIVITY DATA

Chemical incompatibilities: NONE
Conditions to avoid: NONE
Hazardous decomposition Products: NONE

SECTION VI. HEALTH HAZARD INFORMATION

Summary of risks: AVOID SKIN OR EYE CONTACT AND INGESTION.
Target organs: SKIN OR EYE CONTACT. INGESTION MAY CAUSE KIDNEY DAMAGE.
Primary entry route(s): SKIN OR EYE CONTACT AND INHALATION.
Chronic effect(s): SKIN OR EYE IRRITATION COULD RESULT AFTER PROLONGED CONTACT.
Signs & symptoms of overexposure:
Eye contact: EYE IRRITATION.
Skin contact: SLIGHT SKIN IRRITATION.
Inhalation: NOSE AND THROAT IRRITATION.
Ingestion: MAY CAUSE KIDNEY FAILURE.
HEALTH HAZARD INFORMATION continued from page 2

First aid:

Eye contact: WASH WITH WATER FOR AT LEAST 15 MINUTES.

Skin contact: WASH WITH SOAP AND WATER.

Inhalation: INHALE FRESH AIR.

Ingestion: INDUCE VOMITING AND CONTACT PHYSICIAN IMMEDIATELY.

SECTION VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill / Leak procedures: OBSERVE ALL CAUTIONS AND SAFETY MEASURES THAT APPEAR IN OTHER SECTIONS OF THIS SAFETY DATA SHEET. SPILLED MATERIAL CAN BE WIPE UP OR ABSORBED BY USING SORBENT PADS, OR GRANULAR SORBENT MATERIALS. COLLECT WASTE IN SUITABLE CONTAINER. WASH SPILL AREA WITH WATER.

Waste management / Disposal: DISPOSE OF CONTAMINATED OR WASTE PRODUCT IN A MANNER APPROVED FOR THE MATERIAL. CONSULT APPROPRIATE FEDERAL, STATE AND LOCAL REGULATORY AGENCIES TO ASSURE PROPER DISPOSAL PROCEDURES.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Personal protective equipment:

Goggles: OR GLASSES

Gloves: FOR PROLONGED CONTACT

Respirator: NO

Other: NO

Workplace considerations:

Ventilation: PREFERABLE

Safety Stations: NO

Contaminated equipment: NO

Other: NO
SECTION IX. SPECIAL PRECAUTIONS

Storage segregation: NO
Special handling / storage: NO

SECTION X. OTHER INFORMATION

Transportation:

TRANSPORTATION INFORMATION PROVIDED HEREIN IS OFFERED AS A GUIDELINE. EACH SHIPPER IS RESPONSIBLE FOR ASSURING COMPLIANCE WITH D.O.T. AND OTHER REGULATIONS.

D.O.T. Shipping Name/Classification and I.D. Number: FLAMMABLE LIQUID N.O.S., UN 1993. (THIS IS A MIXTURE CONTAINING CYCLOHEXANONE, CYCLOHEXANOL, AND OTHER INGREDIENTS.)


NOTE: U.N. classification for air or sea shipment is FLAMMABLE LIQUID, N.O.S., UN 1993.