

BOXCAR PRESS PHOTOPOLYMER PLATES DATA SHEET: 145HSB

Material	Jet Waterwash Series Photopolymer, Steel Base
Model type	145HSB
Applications	Panograph & molding masters for flexo and rubber stamp patterns, letterpress.
Features	High resolution, hard photopolymer with excellent molding characteristics
Available sizes	A-2 (16.5" x 23.375") A-3 (11.75" x 16.5") A-4 (8.25" x 11.75")

Specifications

Overall thickness	.057"
Face relief	.044" PVA/acrylic photopolymer
Substrate	.013" steel base
Durometer	85 Shore D hardness
Surface texture	Standard

Processing

Main exposure:	1:30 - 3:30 minutes @ 720 mj/cm (350 nm)
Shoulder angle	25-30°
Resolution (inches/inches)	150 @ 3%
Minimum isolated dot (um)	200
Maximum isolated dot (um)	40
21 step exposure scale	19-20
Washout	3:30-5:00 minutes
Bath temperature	< 23° C / 72°F
Dry	10:00-40:00 minutes in convection dryer
Oven temperature	80°C / 176°F
Post exposure	6:00 minutes

Effluent data

.0025 square meter of 145-HSB plate in one liter of water

PH	6.0
COD	1941
BOD	44 biochemical demand

Unit	MG/Liter
F-Fluoride	Less than 0.1
Hg-Mercury	Less than 0.0005
Co-Cobalt	Less than 0.01
Pb-Lead	Less than 0.05
Cu-Copper	0.07
Zn-Zinc	0.04
Mn-Manganese	Less than 0.01

You may wish to filter waste water before discharging into sewer. Use a sub micro mesh filter. Dry filtered waste and dispose. Consult local authorities for regulations in your area.



MATERIAL SAFETY DATA SHEET

Information current as of January 1, 1997

Address: JET COMPANY LTD
No. 59-2, 3 Chome, Amamigado, Matsubara City, Osaka, JAPAN
Emergency Telephone Number: (0723) 35-0300

For PRINTING PLATES and RELATED MATERIALS

Trade Name and Synonyms: **JET LSL SERIES (STANDARD & SOFT TYPES)**

Product Class: AB, FB, FI., FS, FSS, SB, SBSS, SSB

<u>HAZARDOUS INGREDIENTS (Typical Values)</u>	<u>wt. %</u>	<u>TLV (units)</u>
Polyvinyl Alcohol:	60	Not Established
Derivatives of Acrylamide:	40	Not Established

PHYSICAL DATA

Boiling Point (F):	N/A
Specific Gravity (H20=1):	1.2 (68F)
Vapor Pressure (mmHg):	Solid at room temperature
Evaporation Rate:	No Data
Vapor Density (air=1):	N/A
Melting Point (F):	N/A
Solubility in Water:	Uncured coating 100%
Appearance and Odor:	Solid plate of specified sizing consisting of light sensitive coating on polyester backing: Slight odor

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	No data
Flammable limit (vol. %):	N/A
Extinguishing Media:	Water, CO2, Foam, Dry Chemical
Unusual fire and explosion hazards:	None
Special fire fighting procedures:	Wear MSHA/NIOSHA approved self contained breathing apparatus and full cover impervious clothing.

HEALTH HAZARD DATA

Primary routes of entry:	Dermal, if misused.
Health Hazards (acute and chronic):	Prolonged contact may cause skin rash to acrylate sensitive persons. Use of product in unventilated area may cause headache or irritation to throat, nose or eyes. Direct eye contact with raw product may cause irritation.

LD50 (rat)-10g./kg. min. (Photosensitive printing plate)
Exposed plate.

LD50 (rat)-4.8g./kg. (unexposed plate)

Carcinogenicity: Unknown.

MATERIAL SAFETY DATA SHEET
JET LSL SERIES (STANDARD & SOFT TYPES)
(page 2)

Signs and Symptoms of exposure: If misused, reddening of skin in contact area. Operator must wear protective gloves.
Emergency and First Aid Procedures: Wash skin with soap and warm water. Flush eyes immediately with water for 15 minutes. If coating is ingested, induce vomiting. Obtain medical attention.

REACTIVITY DATA

Stability: Stable
Conditions to avoid: Material becomes unusable for intended function if exposed to ultraviolet light. Preserve in cool and dark place and handle only under safe, yellow lamps
Incompatibility (materials to avoid): Water and light (photo).
Hazardous decomposition or by-products: None
Hazardous polymerization: Will not occur

PRECAUTIONS FOR SAFE HANDLING AND USE

Procedure when material is spilled: Material is solid, cannot be spilled. In case of transport damage to packaging, material or container, material to be salvaged must not have been exposed to ultraviolet light.

Waste Disposal method: Processed plates may be treated as scrap. Follow local regulations.

Precautions to be taken in handling and storing: Store below 100 degrees Fahrenheit in a dry area. Do not store near heat sources. Material is light sensitive. Do not open package until ready to use. Handle in U/V protected light only. Must be stored flat.

Other precautions: Material is intended to be used in the production of relief type printing plates only. Use caution when handling.

CONTROL MEASURES

Ventilation: Only at the point of use.
Protective items: Use rubber or vinyl gloves. Eye protection is recommended.
Work/hygienic practices: Wash hands after processing plates. Use skin care lotion.

ADDITIONAL REMARKS: none

MATERIAL SAFETY DATA SHEET

Information current as of January 1, 1997

Address: JET COMPANY LTD
No. 59-2, 3 Chome, Amamigado, Matsubara City, Osaka, JAPAN
Emergency Telephone Number: (0723) 35-0300

For PRINTING PLATES and RELATED MATERIALS

Trade Name and Synonyms: **JET LSL SERIES (HARD TYPES)**

Product Class: CHFB, I1AB, I1FL, I1SB, HSBX, SHSB, SP

<u>HAZARDOUS INGREDIENTS (Typical Values)</u>	<u>wt.%</u>	<u>TLV (units)</u>
Polyvinyl Alcohol:	51	Not Established
Derivatives of Acrylamide:	49	Not Established

PHYSICAL DATA

Boiling Point (F):	N/A
Specific Gravity (H ₂ O=1):	1.2 (68F)
Vapor Pressure (mmHg):	Solid at room temperature
Evaporation Rate:	No Data
Vapor Density (air=1):	N/A
Melting Point (F):	N/A
Solubility in Water:	Uncured coating 100%
Appearance and Odor:	Solid plate of specified sizing consisting of light sensitive coating on metal: Slight odor

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	No data
Flammable limit (vol.%):	N/A
Extinguishing Media:	Water, CO ₂ , Foam, Dry Chemical
Unusual fire and explosion hazards:	None
Special fire fighting procedures:	Wear MSHA/NIOSH approved self contained breathing apparatus and full cover impervious clothing.

HEALTH HAZARD DATA

Primary routes of entry:	Dermal, if misused.
Health Hazards (acute and chronic):	Prolonged contact may cause skin rash to acrylate sensitive persons. Use of product in unventilated area may cause headache or irritation to throat, nose or eyes. Direct eye contact with raw product may cause irritation.

LD50 (rat)-10g./kg. min. (Photosensitive printing plate)
Exposed plate.

LD50 (rat)-4.8g./kg. (unexposed plate)

Carcinogenicity:	Unknown.
------------------	----------

MATERIAL SAFETY DATA SHEET
JET LSL SERIES (HARD TYPES)
(page 2)

Signs and Symptoms of exposure: If misused, reddening of skin in contact area. Operator must wear protective gloves.

Emergency and First Aid Procedures: Wash skin with soap and warm water. Flush eyes immediately with water for 15 minutes. If coating is ingested, induce vomiting. Obtain medical attention.

REACTIVITY DATA

Stability: Stable

Conditions to avoid: Material becomes unusable for intended function if exposed to ultraviolet light. Preserve in cool and dark place and handle only under safe, yellow lamps

Incompatibility (materials to avoid): Water and light (photo).

Hazardous decomposition or by-products: None

Hazardous polymerization: Will not occur

PRECAUTIONS FOR SAFE HANDLING AND USE

Procedure when material is spilled: Material is solid, cannot be spilled. In case of transport damage to packaging, material or container, material to be salvaged must not have been exposed to ultraviolet light.

Waste Disposal method: Processed plates may be treated as scrap. Follow local regulations.

Precautions to be taken in handling and storing: Store below 100 degrees Fahrenheit in a dry area. Do not store near heat sources. Material is light sensitive. Do not open package until ready to use. Handle in U/V protected light only. Must be stored flat.

Other precautions: Material is intended to be used in the production of relief type printing plates only. Steel plate backing may have sharp edges. Use caution when handling.

CONTROL MEASURES

Ventilation: Only at the point of use.

Protective items: Use rubber or vinyl gloves. Eye protection is recommended.

Work/hygienic practices: Wash hands after processing plates. Use skin care lotion.

ADDITIONAL REMARKS: none