

Vermont PhotoInkjet LLC

MATERIAL SAFETY DATA SHEET

1 - COMMODITY AND COMPANY IDENTIFICATION

PRODUCT NAME : DYE INKJET INK UV-45

MANUFACTURER : VERMONT PHOTOINKJET LLC

ADDRESS : 17 POWDER SPRING ROAD
TOPSHAM, VERMONT 05076

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2 - CHEMICAL COMPOSITION

PRODUCT NAME	CAS	SYMBOL	% IN WEIGHT	SYMBOL R OR S
PROPRIETARY ORGANIC COMPOUNDS	TRADE SECRET	NF(NON-FLAMMABLE), Xi (IRRITANT)	<4	NONE
ORGANIC REACTIVE DYES / DIRECT DYES	85631-88-5	NF(NON-FLAMMABLE), Xi (IRRITANT)	5.8 – 6.9	R22/R36/38
DERIVATIVE OF POLYALKYL GLYCOL	25322-68-3	F (FLAMMABLE), Xi (IRRITANT)	6.6	R36/37
ETHYLENE GLYCOL	107-21-1	F (FLAMMABLE), Xi (IRRITANT)	7.0	R22/36/37
DERIVATIVE OF POLYOXYETHLENE	104376-75-2	Xn (NOXIOUS)	3.0	R22/36/38
WATER	7732-18-5	NF (NON-FLAMMABLE), Nxi (NON-IRRITANT), Xn (NOXIOUS)	76.5 – 77.6	

3 - HAZARDOUS INGREDIENTS

THIS PRODUCT IS NOT CONSIDERED TO BE A HAZARDOUS SUBSTANCE UNDER OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) AND NOT CLASSIFIED AS "SUBSTANCES OF VERY HIGH CONCERN" (SVHC) BY THE EUROPEAN CHEMICAL'S AGENCY (ECHA) UNDER ARTICLE 57 OF REACH.

4 - HMIS INFORMATION

HEALTH - 1 (NPCA)

FLAMMABILITY - 0 (NPCA)

REACTIVITY - 0 (NPCA)

5 - PHYSICAL DATA

MELTING POINT - LIQUID FORM -15 +/- 5 °C

S.P. (gm/cm³) - 1.05 +/- 0.10

FLASH POINT > 180°C

BOILING POINT > 120 °C

PARTICLE SIZE - LIQUID FORM

SURFACE AREA - UNKNOWN

% VOLATILE - 93.7 ñ 95.1 %

SOLUBILITY IN WATER - MISCIBLE

PH - 6.50 – 9.70

VISCOSITY (mPas) 1.50 – 4.80

WETTING TENSION (mN/m) 25.0 – 34.3
APPEARANCE AND ODOR - COLOR CONCENTRATED LIQUID, APPRECIABLE ODOR

6 - FIRE & EXPLOSION HAZARD

FLAMMABILITY CLASSIFICATION - NON-FLAMMIBLE
EXTINGUISHING MEDIA - CARBON DIOXIDE, DRY CHEMICALS, AND FOAM
PROTECTION OF FIRE FIGHTERS - WEAR INDIVIDUAL BREATHING APPARATUS
SPECIFIC HAZARDS - IN CASE OF FIRE OF SUBSTANCE, DO NOT INHALE THE FUMES

7 - FIRST AID MEASURES

SKIN CONTACT - WASH IN SOAP AND WATER AND RINSE WITH WATER
EYE CONTACT - WASH IMMEDIATELY WITH WATER, OPENING EYELIDS.
IF IRRITATION CONTINUES, SEE AN OPHTHALMOLOGIST
INGESTION - CALL A DOCTOR IN CASE OF DOUBT OR IF SYMPTOMS PERSIST

8 - REACTIVITY DATA

STABILITY - STABLE MATERIALS
HAZARDOUS POLYMERIZATION - WILL NOT OCCUR

9 - SPILL OR LEAK PROCEDURES

SPILLS - SHOULD BE CONTAINED, ABSORBED AND PLACED IN SUITABLE CONTAINERS FOR DISPOSAL IN A RCRA LICENSED FACILITY
WASTE DISPOSAL METHOD - MUST BE DISPOSED OF AS A HAZARDOUS WASTE, AS DEFINED BY EPA'S EP TOXICITY SPECIFICATIONS, AT A RCRA LICENSED FACILITY
CONTAINER DISPOSAL - EMPTY CONTAINERS WITH LESS THAN ONE INCH OF RESIDUE MAY BE CRUSHED AND LANDFILLED AT A LICENSED FACILITY

10 - SPECIAL PROTECTION METHOD

RESPIRATORY PROTECTION - NIOSH APPROVED VAPOR RESPIRATORS RECOMMENDED.
VENTILATION - LOCAL EXHAUST VENTILATION OR CONTAINMENT RECOMMENDED
PROTECTIVE GLOVES - RECOMMENDED
EYE PROTECTION - SAFETY GLASSES RECOMMENDED

11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY - LD50 = 12000 mg/kg (ORAL RAT)
SKIN IRRITATION - OCDE404 : NON IRRITANT
EYE IRRITANT - OCDE405 : IRRITANT

12 - ECOLOGICAL INFORMATION

POSSIBLE ENVIRONMENT IMPACT / ECOTOXICITY - AMES TEST : NEGATIVE

13 - HANDLING AND STORAGE

HANDLING - HANDLING WITHOUT CAUSING DUST
STORAGE - PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITION

14 - TRANSPORTATION REQUIREMENTS

D.O.T. HAZARD CLASSIFICATION (49 CFR 172) : NONE / NON-HAZARDOUS
D.O.T. LABELS REQUIRED : NONE
HAZARDOUS WASTE : NO

15 - SPECIAL PRECAUTIONS

FDA STATUS - THIS PRODUCT DOES NOT HAVE FDA APPROVAL AS A FOOD ADDITIVE
LABEL - Xi : IRRITANT
R36
S2
R25
S26
S46
S64

16 - OTHER INFORMATIONS

USAGE - USED IN DESKTOP AND WIDE FORMAT PLOTTER PRINTERS
SOLVENT SYSTEM - WATER

17 ñ HEAVY METAL CONTENT

ARSENIC : < 0.2 ppm
LEAD : < 0.3 ppm
MERCURY : < 0.3 ppm
BARIUM : < 0.3 ppm
ANTIMONY : < 0.4 ppm
CADMIUM : < 0.2 ppm
SELENIUM : < 0.1 ppm

THIS SHEET COMPLETES THE TECHNICAL SHEET OF USE BUT IT DOES NOT REPLACE IT.
THE INFORMATION CONTAINED IN THIS SHEET ARE BASED ON OUR KNOWLEDGE OF THE
PRODUCT AT THE DATE MAY 12, 2016