

# Vermont PhotoInkjet, LLC

## MATERIAL SAFETY DATA SHEET

### 1 - COMMODITY AND COMPANY IDENTIFICATION

**PRODUCT NAME** : PIEZOFLUSH ( Aqueous Cleaning Solution )  
**MANUFACTURER** : VERMONT PHOTOINKJET, LLC  
**ADDRESS** : 17 POWDER SPRING RD, TOPSHAM, VT 05076  
**PHONE NO.** : 802-439-3127 FAX 802-439-3143

### 2 - CHEMICAL COMPOSITION

PRODUCT NAME	CAS	SYMBOL	% IN WEIGHT	SYMBOL R OR S
POLYOXYETHYLENE DERIVATIVE	104376-75-2	Xn (NOXIOUS)	> 6.0	R22/R36/R38
ETHYLENE GLYCOL	107-21-1	F (FLAMMABLE), Xi (IRRITANT)	> 4.0	R22/R36/R37
ORGANIC REACTIVE DYES / DIRECT DYES	85631-88-5	NF(NON-FLAMMABLE), Xi (IRRITANT)	> 2.0	R22/R36/R38
PROPRIETARY ORGANIC MATERIALS			> 5.0	
WATER	7732-18-5	NF (NON-FLAMMABLE) , Nxi (NON-IRRITANT), Xn (NOXIOUS)	BALANCE	

### 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 -5 + / -2 °C  
S.P. (gm/cm<sup>3</sup>) - 1.02 + / - 0.01  
PARTICLE SIZE - LIQUID FORM  
SURFACE AREA - UNKNOWN  
% VOLATILE - 92.0 %  
SOLUBILITY IN WATER - MISCIBLE  
PH - 6.80 – 7.20  
VISCOSITY ( mPas ) 2.3 - 3.5  
WETTING TENSION (mN/m) 23.0 – 32.0  
APPEARANCE AND ODOR - COLOR LIQUID, NON- APPRECIABLE ODOR

### 6 - FIRE & EXPLOSION HAZARD

FLAMMABILITY CLASSIFICATION - NON-FLAMMABLE  
EXTINGUISHING MEDIA - CARBON DIOXIDE, DRYCHEMICALS, 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 = 9000 mg/kg ( ORAL RAT)  
SKIN IRRITATION - OCDE404 : NON IRRITANT  
EYE IRRITANT - OCDE405 : IRRITANT

## 12 - ECOLOGICAL INFORMATION

- POSSIBLE ENVIRONMENT IMPACT / ECOTOXICITY - AMES : NEGATIVE  
TEST

## 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 - Xn NOCIVE  
R22/36/38

#### 16 - OTHER INFORMATIONS

USAGE - USED IN CLEANING PRINTHEAD OF INKJET PRINTERS  
SOLVENT SYSTEM - WATER

#### 17 ñ HEAVY METAL CONTENT

ARSENIC	:	< 0.5 ppm
LEAD	:	< 0.6 ppm
MERCURY	:	< 0.5 ppm
BARIUM	:	< 0.8 ppm
ANTIMONY	:	< 0.6 ppm
CADMIUM	:	< 0.5 ppm
SELENIUM	:	< 0.5 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 Jan. 2, 2017

- END OF REPORT-