

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) and (EU) No.453/2010 (amending REACH)

INK Cartridge for Franking Machines

Chapter 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE or MIXTURE: Mixture

Substances in the mixture:

Substance name	CAS No.	EC No.	Weights (%)	REACH (pre/registration) Number	Index number	Classification according to CLP Regulation (EC) No 1272/2008
Glycerine		56-81-5	10-15%			
Diethylene Glycol		111-46-6	0.10%			
Pyrrolidone 2-		616-45-5	0-5%			
DYE Compund		Trade Secret				

The Full Text for all R-Phrases are Displayed in Section 16

Substances in Annex XIV to Regulation (EC) No 1907/2006 (Authorization) or the Candidate List of SVHC: None

Substances in Annex XVII to Regulation (EC) No 1907/2006 (Restriction): None

Note:

All substances with CAS numbers not listed in the MSDSs of our products are not classified as hazardous by the regulation (EC) No 1272/2008 (CLP) or included in the candidate list of SVHC.

All substances where the registration limits for importation are achieved have been subjected to the mentioned registration by the importing company or an only representative to Europe.

Chapter 4. FIRST AID MEASURES

4.1.1 FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE

Inhalation:	No adverse effects anticipated by this route of exposure incidental to proper handling.
Eye contact:	Do not rub eyes. Flush eyes immediately with plenty of water for at least 15 minutes.
Skin contact:	Flush with plenty of water. Use soap. If irritation develops, seek medical advice.
Ingestion:	No adverse effects anticipated by this route of exposure incidental to proper handling.

4.1.2 ADDITIONAL FIRST AID INFORMATION

Additional first aid information: N/A

4.2 SYMPTOMS AND EFFECTS ACUTE AND DELAYED

Acute Symptoms from Exposure: N/A.

Delayed Symptoms from Exposure: N/A

4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

Move to fresh air.

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) and (EU) No.453/2010 (amending REACH)

INK Cartridge for Franking Machines

Chapter 5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: Water, dry chemical, carbon dioxide or foam type extinguishers.

Extinguishing Media Not to be Used: Water Jet

5.2 SPECIAL HAZARDS arising from the substance/mixture

Dust explosion: N/A

Hazardous Combustion: N/A

5.3 ADVICE FOR FIRE FIGHTERS

Avoid inhalation of smoke. Wear protective clothing and wear self-contained breathing apparatus.

Chapter 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 PRECAUTIONS FOR NON-EMERGENCY PERSONNEL

None.

6.1.2 ADDITIONAL FIRST AID INFORMATION

None.

6.1.3 PERSONAL PROTECTION

Wear personal protective equipment as described in Section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Regulatory Information: Keep product out of sewers and watercourses.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP

Spill or Leak Cleanup Procedures: None

Chapter 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

No special precautions when used as intended. Keep containers closed and dust-free. Keep away from ignition sources.

7.2 CONDITIONS FOR SAFE STORAGE

Keep out of reach of children.

Keep container closed and store in well-ventilated dry place at room temperature.

Avoid high temperatures, >100°F/32°C Do not store with strong oxidizers.

Avoid packaging materials with plasticizer, which may soften this product if directly contacted.

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) and (EU) No.453/2010 (amending REACH)

INK Cartridge for Franking Machines

7.3 SPECIFIC END USES

Printing devices.

Chapter 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 2).

Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

8.2 EXPOSURE CONTROLS

Appropriate Engineering Controls: Good general ventilation should be sufficient under normal conditions of use.

Individual Protection Measures, such as Personal Protective Equipment:

Respiratory protection:

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, levels of airborne contamination, and sufficient levels of oxygen.

Eye/Face Protection:

Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses. Protective goggles or safety glasses are recommended.

Hand/Skin Protection:

For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. **WARNING!**

Air purifying respirators do not protect worker in oxygen deficient atmospheres.

Thermal Hazards:

None anticipated.

Environmental Exposure Controls:

Avoid release to the environment.

Additional Protection:

N/A

Protective Clothing and Equipment:

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splash proof chemical goggles and face shield when working with liquid, unless full face piece respiratory protection is worn.

Safety Stations:

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment:

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment. Never take home contaminated clothing.

SAFETY DATA SHEET

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INK Cartridge for Franking Machines

Comments:

Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

Chapter 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 DETAIL INFORMATION

Physical state:	Liquid
Color:	Blue
Odor:	Mild
Odor threshold:	N/A
PH:	N/A
Melting point/Freezing point:	N/A
Flash point:	N/A
Explosion limits:	N/A
Relative density:	N/A
Auto-ignition temperature:	N/A
Vapor pressure:	N/A
Vapor Density:	N/A
Specific weight:	N/A
Solubility:	Insoluble in water
Partition coefficient n-octanol / water:	N/A
Decomposition temperature:	N/A
Viscosity:	N/A
Oxidizing properties:	N/A

9.2 OTHER INFORMATION

N/A

Chapter 10. CHEMICAL STABILITY AND REACTIVITY

10.1 Reactivity:

Reactivity Hazards:	None
Data on Mixture Substances:	None

10.2 Chemical Stability:	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
10.3 Hazardous Polymerization:	Stable under conditions of normal use.
10.4 Conditions to Avoid:	Keep away from heat, flame, sparks and other ignition sources.
10.5 Incompatible Materials:	Strong oxidizing materials
10.6 Hazardous Decomposition:	Will not occur.

SAFETY DATA SHEET

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INK Cartridge for Franking Machines

Chapter 11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures:	Ink contains non known toxicological materials.
Acute Toxicity:	N/A
Skin Corrosion/Irritation:	Tests on inks containing similar materials indicate no evidence of acute dermal toxicity; non- irritating and non-sensitizing in human patch test.
Serious Eye Damage:	N/A
Sensitization:	N/A
Mutagenicity:	Ink is negative (no mutagenic) in the Ames assay
Carcinogenicity:	N/A
Reproductive Toxicity:	N/A
STOT - Single Exposure:	N/A
STOT - Multiple Exposure:	N/A
Ingestion:	N/A
Hazard Class Information:	N/A
Mixture on Market Data:	N/A
Symptoms:	N/A
Delayed/Immediate Effects:	N/A
Test Data on Mixture:	N/A
Not Meeting Classification:	N/A
Routes of Exposure:	N/A
Interactive Effects:	N/A
Absence of Specific Data:	N/A
Mixture vs Substance Data:	N/A

Chapter 12. ECOLOGICAL INFORMATION

12.1 Eco toxicity:	Based on available data, not harmful to aquatic life.
12.2 Persistence and Degradability:	No data available.
12.3 Bioaccumulation Potential:	No data available.
12.4 Mobility in Soil:	Completely miscible in water.
12.5 PBT & vPvB Assessment:	N/A
12.6 Other Adverse Effects:	No data available

Chapter 13. DISPOSAL CONSIDERATIONS

Disposal Information:

This product is not regarded as hazardous waste as defined by EU directive 91/689/EEC Dispose as a solid waste in accordance with local authority regulations. Empty container retains product residue.

Physical/Chemical Properties that affect Treatment:

Symbol: This product is not classified as dangerous

Risk Phrases: This product is not classified according to the EU regulations.

Waste Treatment Information:

Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations

Chapter 14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID):.

14.1 UN Number: None allocated

14.2 UN Shipping Name: N/A

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) and (EU) No.453/2010 (amending REACH)

INK Cartridge for Franking Machines

14.3 Hazard Class:	N/A
14.4 Packing Group:	N/A
14.5 Environmental Hazards:	N/A
14.6 User Precautions:	N/A
14.7 Bulk Transport:	N/A

Chapter 15. REGULATORY INFORMATION

15.1 REGULATORY INFORMATION RELATING TO ENVIRONMENT, HEALTH AND SAFETY

This Safety Data Sheet was prepared in accordance with:

EU Regulatory Information:	Regulation (EC) No 1907/2006 REACH Regulation, Regulation 1272/2008 (CLP)
EPA Regulatory Information:	None at this time
CERCLA Reportable Quantity:	None

Superfund Information:

Hazard Categories:

Immediate:	None
Delayed:	None
Fire:	None
Pressure:	None
Reactivity:	None

Section 302 - Extremely Hazardous:	Not listed
Section 311 - Hazardous:	Not listed

15.2 CHEMICAL SAFETY ASSESSMENT

Not done

Chapter 16. OTHER INFORMATION

Sections containing revisions and/or new statements:

Newly issued in accordance with Regulations (EC) No 1907/2006 (REACH) , 1272/2008 (CLP) and (EU) No 453/2010 (amending REACH).

General Comments:

This information is based on our current knowledge. It should not therefore be construed as guarantee in specific properties of the products as described or their suitability for a particular application

Literature reference:	N/A
Safety Phrases:	None
Precautionary Statements:	None
Worker Training:	N/A

SAFETY DATA SHEET

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INK Cartridge for Franking Machines

Key to Abbreviations and Acronyms used in this sheet:

ACGIH = American Conference of Governmental Industrial Hygienists	N/A = Not Applicable / Not Available
CERCLA = Comprehensive Environmental Response Compensation and Liability Act	NFPA = National Fire Protection Association
CLP = Classification, Labeling, and Packaging	NIOSH = National Institute for Occupational Safety and Health
DSD = Dangerous Substances Directive	OSHA = Occupational Health and Safety Administration
EC = European Community	PEL = Permissible Exposure Limit
ECHA = European Chemicals Agency	SCBA = Self Contained Breathing Apparatus
EPA = Environmental Protection Agency	STOT = Specific Target Organ Toxicity
EU = Europe or European	TLV = Threshold Limit Value
GHS = Globally Harmonized System	UK = United Kingdom
	UN = United Nations

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