

SAFETY DATA SHEET

SDS Number:	262, REV K PITNEY BOWES INC.	Effective Date:	May 20, 2003
		Revised Date:	May 31, 2013
Product Name:	Red Fluorescent Ink for the DM100 series, DM200L, DM300c-DM 475c, DM500 Series, DM800 - DM1100 Series, and DM Infinity mailing machines	Page:	1 of 9

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name: Red Fluorescent Ink for the DM100 series, DM200L, DM300c-DM 475c, DM500 Series, DM800 - DM1100 Series, and DM Infinity mailing machines

Reorder Number: 621-1: DE95006 for the DM500 Series
 765-9: 3C80000 for the DM300c – DM475c
 766-8: DT84037 for the DM800 - DM1100 Series
 772-6: R700066 for the Single Pack, DM Infinity
 772-7: R700066 for the Twin Pack, DM Infinity
 793-5: FRDP-7M for the DM100 series
 793-5P: 945A001AA for the DM100i

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Product Use:

Ink for Mailing Machines

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer:	Pitney Bowes Inc. 1 Elmcroft Road Stamford, CT 06926-0700 United States	Pitney Bowes Ltd The Pinnacles Harlow Essex, CM19 5BD
Information Phone Number:	800-243-7824	+44(0) 8705 252 525
E-mail:	ehs@pb.com	ehs@pb.com

1.4 Emergency Telephone Number

Emergency Spill Information	800-424-9300 <i>North America</i>	00-1-703-527-3887 <i>International (collect call)</i>
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SDS Date of Preparation: May 31, 2013

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008): Not classified as hazardous.

EU Classification (67/548/EEC): Not classified as dangerous

2.2 Label Elements: None required.

2.3 Other Hazards: None

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical Name	CAS#	EINECS#	EU Classification (67/548/EEC)	GHS Classification Regulation (EC) No 1272/2008	%
Water	7732-18-5	231-791-2	None Established	None Established	60-80
Glycerin	56-81-5	200-289-5	None Established	Eye Irrit. 2B (H320)	5-10
Ethyleneurea	120-93-4	204-436-4	Xi R36	Eye Irrit. 2A (H319)	0-10
Heterocyclic Compound	Proprietary	Proprietary	None Established	None Established	0-10
Surfactant – Poly(oxy-1,2-ethanediyl), alpha, alpha'-(1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl)bis(omega-hydroxy)	9014-85-1	500-022-5	Xi R41	Eye Irrit. 2A (H319)	1-5
Dye – Hexasodium 2,2'-(6-morpholino-1,3,5-triazine-2,4-diyl)bis(imino(2-sulphonato-4,1-phenylene)vinylene(3-sulphonato-4,1-phenylene)))bis(2H-naphtho(1,2-d)triazole-5-sulphonate)	73398-48-8	277-447-5	Xi R41	Eye Irrit. 2A (H319)	1-5

See Section 16 for further information on EU and GHS Classification.

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SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eyes: Flush with plenty of running cold water for several minutes, holding eyelids open to assure thorough rinsing. Get medical attention if irritation develops or persists.

Skin: Wash with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops or persists.

Inhalation: Remove to fresh air. Get medical attention if irritation develops or persists.

Ingestion: If large amounts are swallowed, do not induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get medical attention.

Notes to Physicians: Treat symptomatically.

4.2 Most Important symptoms and effects, both acute and delayed: May cause mild eye and skin irritation. Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, head ache and nausea. Ingestion may cause abdominal pain, diarrhea, dizziness, drowsiness, head ache and nausea.

4.3 Indication of any immediate medical attention and special treatment needed:
Immediate medical treatment should not be required.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use water spray, carbon dioxide, dry chemical or foam to extinguish fire.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None known.

Hazardous Decomposition Products: Carbon, nitrogen and sulfur oxides.

5.3 Advice for Fire-Fighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with eyes, skin and clothing.

6.2 Environmental Precautions:

It is recommended to keep away from drains, surface and ground water.

6.3 Methods and Material for Containment and Cleaning Up:

Large Spill: Contain spill and absorb with an inert absorbent. Place in an appropriate container for proper disposal.

Small Spill: Wipe up with absorbent material and place into a suitable container for

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disposal. Clean area with a damp cloth to remove residue.

6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with eyes, skin, and clothing. Wash thoroughly after use.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Keep away from excessive heat and cold. Keep out of the reach of children.

7.3 Specific end use(s):

Ink for Postage Meter

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Water	None Established
Glycerol United States	15 mg/m ³ TWA (Total dust) OSHA PEL 5 mg/m ³ TWA (Respirable fraction) OSHA PEL 10 mg/m ³ TWA ACGIH TLV (mist)
Australia	10 mg/m ³ TWA
Germany	50 mg/m ³ TWA (Inhalable); 100 mg/m ³ STEL (Inhalable)
Spain	10 mg/m ³ TWA
United Kingdom	10 mg/m ³ TWA
Ethyleneurea	None Established
Heterocyclic Compound	None Established
Surfactant – Poly(oxy-1,2-ethanediyl), alpha, alpha'-(1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl)bis(omega-hydroxy)	None Established
Dye – Hexasodium 2,2'-((6-morpholino-1,3,5-triazine-2,4-diyl)bis(imino(2-sulphonato-4,1-phenylene)vinylene(3-sulphonato-4,1-phenylene)))bis(2H-naphtho(1,2-d)triazole-5-sulphonate)	None Established

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8.2 Exposure Controls:

Engineering Controls: General ventilation sufficient to keep exposure below exposure limits.

Respiratory Protection: None normally required.

Skin Protection: None normally required. Wear rubber gloves if needed to avoid skin contact.

Eye Protection: None normally required. Wear safety glasses if eye contact is possible.

Other: Not required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Red liquid.	Vapor Density: Not determined
Odor: Slight	Specific Gravity: 1.00-1.10
Odor Threshold: Not determined	Water Solubility: Miscible
pH: 7-9	Octanol/Water Partition Coefficient: Not determined
Melting Point/Freezing Point: Not determined	Autoignition Temperature: Not determined
Boiling Point: Not determined	Decomposition Temperature: Not determined
Flash Point: None	Viscosity: 1-5 (mPa s)
Evaporation Rate: Not determined	Explosion Properties: Not determined
Flammable Limits: LEL: Not applicable UEL: Not applicable	Oxidizing Properties: Not determined
Vapor Pressure: Not determined	VOC: Not determined

9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not reactive under normal conditions of use.

10.2 Chemical Stability:

Stable.

10.3 Possibility of Hazardous Reactions:

None known.

10.4 Conditions to Avoid:

None known.

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10.5 Incompatible Materials:

Avoid strong oxidizers, acids, and strong bases.

10.6 Hazardous Decomposition Products:

Carbon, nitrogen and sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eyes: May cause mild eye irritation.

Skin: May cause mild skin irritation.

Ingestion: Swallowing large amounts may cause abdominal pain, headache, dizziness, drowsiness, nausea, vomiting and diarrhea.

Inhalation: No adverse effects expected under normal use. High vapor concentrations due to heating may cause upper respiratory tract irritation with possible headache, dizziness, drowsiness, and nausea.

Acute Toxicity Values:

Glycerol	LD50: 6,500 mg/kg	Rat	Oral
	LC50: > 570 mg/m ³ / 1 hr	Rat	Inhalation

Irritation: This product is not expected to cause eye or skin irritation based on animal studies.

Eye: Slightly-irritating (rabbit) OECD Guidelines No.405 (2002), 92/69/EEC Method B5

Skin: Non-irritant (rabbit) OECD Guidelines No.404 (2002), 92/69/EEC Method B4

Corrosivity: This product is not expected to cause eye or skin corrosion based on animal studies.

Sensitization: This product is not a sensitizer based on animal studies.

Non-sensitizer (guinea pig) OECD Guidelines No.406 (1992), 96/54/EC Method B42

Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeat Exposure: Prolonged intentional inhalation may result in respiratory tract irritation.

Carcinogen Status: None of the component of this product are classified as carcinogens by IARC, OSHA, NTP, ACGIH, or the EU Directives.

Germ Cell Mutagenicity: This product is not a mutagen. AMES test: Negative (S.typhimurium & E. Coli)

Toxicity for Reproduction: This product is not classifies as a reproductive hazard.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available for product.
Glycerol: LC50 Daphnia magna (Water flea) >10000 mg/L/ 24 hr;
LC50 Goldfish >5000 mg/L/ 24 hr

12.2 Persistence and Degradability:

No data available for product.
Glycerol: Biodegradation rate constants of 0.258/day and 0.200/day in respirometric test systems employing activated sludge have been reported, corresponding to 68% and 78% degradation, respectively.

12.3 Bioaccumulative Potential:

No data available for product.
Glycerol: An estimated BCF of 3 was calculated in fish for glycerin, using a log Kow of -1.76 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low.

12.4 Mobility in Soil:

No data available for product.
Glycerol: is expected to have very high mobility in soil

12.5 Results of PBT and vPvB Assessment:

Not required.

12.6 Other Adverse Effects:

None.

SECTION 13: DISPOSAL INFORMATION

13.1 Waste Treatment Methods

Dispose in accordance with local, state or provincial and federal or national regulations.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(s)	14.4 Packing Group	14.5 Environmenta l Hazards
US DOT	None	Not regulated for transport	None	None	No
EU ADR/RID	None	Not regulated for transport	None	None	No

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IATA:	None	Not regulated for transport	None	None	No
IMDG	None	Not regulated for transport	None	None	No

14.6 Special Precautions for User:

None

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

International Inventories:

US EPA TSCA Inventory: This product is considered a manufactured article and not subject to the TSCA inventory.

Canadian Environmental Protection Act: This product is considered a manufactured article and not subject to the Canadian Domestic Substances List.

EU Inventory: This product is considered a manufactured article and not subject to the EINECS inventory.

Australian Regulations: This product is considered a manufactured article and not subject to the Australian AICS inventory.

Chinese Regulations: This product is considered a manufactured article and not subject to the Chinese IECSC inventory.

Korean Regulations: This product is considered a manufactured article and not subject to the Korean KECI inventory.

Philippine Regulations: This product is considered a manufactured article and not subject to the Philippine PICCS inventory.

U.S. REGULATIONS

CERCLA: Spills of this product are required to be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 Hazard Classification: Acute health

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: None

California Proposition 65: This product contains the following chemicals which are known to the State of California to cause cancer, reproductive toxicity or birth defects: None.

INTERNATIONAL REGULATIONS

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WHMIS Classification: This product is considered a manufactured article and not subject to CEPA WHMIS.

German WGK: Not determined.

15.2 Chemical Safety Assessment:
Not required

SECTION 16: OTHER INFORMATION

NFPA Codes:	Health: 1	Fire: 0	Instability: 0
HIMS Codes:	Health: 1	Fire: 0	Physical Hazard: 0

GHS Phrases for Reference (See Section 2 and 3):

Eye Irrit. 2A – Eye Irritation Category 2A

Eye Irrit. 2B – Eye Irritation Category 2B

H320 Causes eye Irritation

H319 Causes serious eye irritation

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

Xi Irritant

R36 Irritating to eyes

R41 Risk of serious damage to eyes

SDS Prepared By: Chemical Review Board
WHMIS Reviewed May 31, 2013

Revision Summery: Change to Section 1: Product name and re-order number.