

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product name: Black Solvent Ink Cartridge for HP 2850
Part number: HPSOLV2580

1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: Postage Meters

1.3 SUPPLIER DETAILS

Supplier: Clover Imaging Group
4200 Columbus Street
Ottawa, IL 61350
United States
Phone number: 815-431-8100
Fax: 815-461-8583
Contact Hours: 08:00AM-05:00PM CST

1.4 EMERGENCY TELEPHONE NUMBERS

Supplier: 815-431-8100

* This document provides safety-related information about ink/toner, in various forms, for use in copiers/printers etc.

2. HAZARDS IDENTIFICATION

2.1 INFORMATION and CLASSIFICATION

Overview: OSHA Regulatory Status - This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Acute toxicity - Oral: Category 3. Acute toxicity - dermal: Category 3. Acute toxicity - Inhalation (Dusts/Mists): Category 4. Serious eye damage/eye irritation: Category 1. Carcinogenicity: Category 1B. Specific target organ toxicity (single exposure): Category 1. Flammable liquids: Category 2.

2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: Hazard Statements: Toxic if swallowed. Toxic in contact with skin. Harmful if inhaled. Causes serious eye damage. May cause cancer. Causes damage to organs. Highly flammable liquid and vapor.

Risk Phrases: Precautionary Statements - Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces/. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Safety Phrases: Precautionary Statements - Response: IF exposed: Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before use. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Precautionary Statements - Storage: Store locked up. Store in a well-ventilated place. Keep cool.

2.3 OTHER HAZARDS

PBT or vPvB: N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Ethyl alcohol	64-17-5	25-50	TWA: 1000 ppm. TWA: 1900 mg/m3.	1000 ppm STEL	NIOSH IDLH - IDLH: 3300 ppm. TWA: 1000 ppm. TWA: 1900 mg/m3.
Methyl alcohol	64-56-1	35-60	TWA: 200 ppm. TWA: 260 mg/m3	250 ppm STEL. TWA: 200ppm	NIOSH IDLH - IDLH: 6000 ppm. TWA: 200 ppm. TWA: 260 mg/m3. STEL: 250 ppm. STEL: 325 mg/m3.
Black Dye	NOT AVAILABLE	1-10			
Ester	Proprietary	1-5			
Ketone	Proprietary	1-5	TWA: 1000 ppm. TWA 2400 mg/m3	500 ppm STEL. TWA: 250 ppm	NIOSH IDLH - IDLH: 2500 ppm. TWA: 250 ppm. TWA: 590 mg/m3.
Isopropyl alcohol	67-63-0	1-5	TWA: 400 ppm. TWA: 980 mg/m3	400 ppm STEL. TWA: 200 ppm	NIOSH IDLH - IDLH: 2000 ppm. TWA: 400 ppm. TWA: 980 mg/m3. STEL: 500 ppm. STEL: 1225 mg/m3.
Naphtalene	91-20-3	01 - <1			
2-Naphthol	135-19-3	0.1 - <1			

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

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest Directives.

This section provides composition information for the specified substance/mixture.

4. FIRST-AID MEASURES**4.1 FIRST AID MEASURES****4.1.1 FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE**

Inhalation:	Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Eye contact:	Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If symptoms persist, call a physician.
Skin contact:	Wash off immediately with plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician or poison control center immediately. Drink plenty of water. Clean mouth with water and drink plenty of water afterwards. Do not induce vomiting without medical advice. Call a physician.

4.1.2 ADDITIONAL FIRST AID INFORMATION

Additional first aid information:	Remove all sources of ignition. Use personal protective equipment as required.
Immediate Medical Attention Required:	Immediate medical attention is required. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If symptoms persist, call a physician.

4.2 SYMPTOMS AND EFFECTS

Acute Symptoms from Exposure:	Symptoms: Hives.
Delayed Symptoms from Exposure:	Symptoms: Hives.

4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: Use CO2, dry chemical, or foam for extinction.
Extinguishing Media Not to be Used: N/A

5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards: N/A
Extinguishing Media Not to be Used: N/A

5.3 ADVICE FOR FIRE FIGHTERS

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

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 PRECAUTIONS FOR NON-EMERGENCY PERSONNEL

N/A

6.1.2 ADDITIONAL FIRST AID INFORMATION

N/A

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: Dispose of contents

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations for Handling:	No special precautions when used as intended. Keep containers closed. If toner, avoid creating dust. Keep away from ignition sources.
Advice on General Hygiene:	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.

7.2 CONDITIONS FOR SAFE STORAGE

Avoid high temperatures, >100°F/32°C

7.3 SPECIFIC END USES

Printing devices

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

8.2 EXPOSURE CONTROLS

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.

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.

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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 DETAIL INFORMATION**

Physical state:	APPEARANCE: Black liquid.
Color:	Black
Odor:	Solvent
Odor threshold:	No information available.

Boiling point:	75° C
Melting point:	N/A
Flash point:	< 17° C
Explosion limits:	N/A
Relative density:	N/A
Auto-ignition temperature:	N/A

9.2 OTHER INFORMATION

pH: 5-7. Upper flammability limit in air: 11.5 (volume % in air). Lower flammability limit in air: 1.8 (volume % in air). Specific Gravity 0.700-0.900.

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.

11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures:	N/A
Acute Toxicity:	Ethyl alcohol (64-17-5): Oral LD50 = 7060 mg/kg (Rat). Inhalation LC50 = 124.7 mg/L (Rat) 4h. / Methyl alcohol (67-56-1): Oral LD50 = 6200 mg/kg (Rat). Dermal LD50 = 15840 mg/kg (Rabbit) = 15800 mg/kg (Rabbit). Inhalation LC50 = 22500 ppm (Rat) 8h = 64000 ppm (Rat) 4h. / Ester: Oral LD50 = 1540 mg/kg (Rat). Inhalation LC50 = 5100 mg/m3 (Rat) 4h. / Ketone: Oral LD50 = 5800 mg/kg (Rat). Dermal LD50 = 15700 mg/kg (Rabbit). Inhalation LC50 = 50100 mg/m3 (Rat) 8h. / Isopropyl alcohol (67-63-0) Oral LD50 = 1870 mg/kg (Rat). Dermal LD50 = 4059 mg/kg (Rabbit). Inhalation LC50 = 72600 mg/m3 (Rat) 4h. / Napthalene (91-20-3): Oral LD50 = 1110 mg/kg (Rat) = 4900 mg/kg (Rat). Dermal LD50 = 1120 mg/kg (Rabbit) > 20 g/kg (Rabbit). Inhalation LC50 = 340 mg/m3 (Rat) 1h. / 2-Napthol (135-19-3): Oral LD50 = 1320 mg/kg (Rat). Dermal LD50 >10 g/kg (Rabbit). Inhalation LC50 >770 mg/m3 (Rat) 1h = 2.2 mg/L (Rat) 4h.
Skin Corrosion/Irritation:	Irritating to skin.
Serious Eye Damage:	Risk of serious damage to eyes. Irritating to eyes.
Inhalation:	N/A
Sensitization:	No information available.
Mutagenicity:	No information available.
Carcinogenicity:	This product contains Ethanol which is classified as a possible carcinogen when ingested in the form of an alcoholic beverage. This is irrelevant as this product is used for ink jet ink applications not an alcoholic beverage. Ethyl alcohol (64-17-5) ACGIH: A3. IARC: Group 1. NTP: Known. OSHA: X. / Ester: IARC: Group 3. / Isopropyl alcohol (67-63-0): IARC: Group 3. OSHA: X. / Napthalene (91-20-3): ACGIH: A3. IARC: Group 2B. NTP: Reasonably Anticipated. OSHA: X. IARC (International Agency for Research on Cancer): Group 1 - Carcinogenic to humans. Group 2B - Possibly carcinogenic to humans. Group 2A - Probably carcinogenic to humans. NTP (National Toxicity Program): Reasonably Anticipated - Reasonably anticipated to be a human carcinogen. Known - Known carcinogen.
Reproductive Toxicity:	No information available.
STOT - Single Exposure:	No information available.
STOT - Multiple Exposure:	Causes damage to organs through prolonged or repeated exposure.
Ingestion:	Toxic if swallowed. Do NOT taste or swallow.
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

12. ECOLOGICAL INFORMATION

12.1 Eco toxicity:	Toxic to aquatic life with long lasting effects.
12.2 Degradability:	No information available.
12.3 Bioaccumulation Potential:	PARTITION COEFFICIENTS: Ethyl alcohol (64-17-5): -0.32. Methyl alcohol (67-56-1): -0.77. Ester: -0.566. Ketone: -0.24. Isopropyl alcohol (67-63-0): 0.05. Napthalene (91-20-3): 3.6. 2-Napthol (135-19-3): 2.84.
12.4 Mobility in Soil:	N/A
12.5 PBT & vPvB Assessment:	N/A
12.6 Other Adverse Effects:	N/A

13. DISPOSAL CONSIDERATIONS

Disposal Information:

Dispose of product 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 federal, state and local environmental regulations.

Waste Treatment Information:

If toner, 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.

Personal Protection Required:

N/A

14. TRANSPORT INFORMATION

14.1 ID Number:	UN1210
14.2 Shipping Name:	Printing ink, Flammable
14.3 Hazard Class:	3
14.4 Packing Group:	II
14.5 Environmental Hazards:	N/A
14.6 User Precautions:	N/A
14.7 Bulk Transport:	N/A

15. REGULATORY INFORMATION

15.1 **Regulatory Information:** N/A

EPA Regulatory Information: N/A

CERCLA Reportable Quantity: N/A

15.2 **Superfund Information:**

Hazard Categories:

Immediate: N/A

Delayed: N/A

Fire: N/A

Pressure: N/A

Reactivity: N/A

Section 302 - Extremely Hazardous: N/A

Section 311 - Hazardous: N/A

15.3 **State Regulations:** California Proposition 65: This product contains the following Proposition 65 chemicals:
Ethyl alcohol (64-17-5): Carcinogen Developmental. Methyl alcohol (67-56-1):
Developmental. Napthalene (91-20-3): Carcinogen.

15.4 **Other Regulatory Information:** N/A

16. OTHER INFORMATION

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

Creation Date of this SDS: 08/31/2022

Key to Abbreviations and Acronyms used in this sheet:

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

Ref:

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