



SAFETY DATA SHEET FLEXFORM UV INKS

MSDS10011-EN

Version 1, revision date March 4, 2009

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Ref. (EC) No 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name: FlexForm UV Inks

Product code: FLEXUVK, FLEXUVC, FLEXUVM, FLEXUVY, FLEXUVCLT, FLEXUVMMLT

Use: Digital printing ink

Company: Gandi Innovations
941 Isom Rd, San Antonio, TX 78216, USA

Telephone: 210-344-9566
Telefax: 210-344-9569
Web: www.gandininnovations.com
E-mail: info@jetiprinters.com

Emergency Telephone (North America): 800-424-9300
Emergency Telephone (International): +1 703 527 3887

2. HAZARDS IDENTIFICATION

Ingestion: May cause irritation of the mouth, throat, esophagus, and stomach. There may be discomfort or pain in the mouth, throat, chest and abdomen, with nausea, vomiting, diarrhea, difficulty swallowing, weakness, thirst, dizziness, and drowsiness. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

Inhalation: Inhalation of mist, aerosols, or vapors may result in irritation of respiratory tract coughing, shortness of breath and dizziness.

Skin: Contains material that may cause severe skin irritation (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formation (burns). Since irritation may not occur immediately, contact can go unnoticed.

Eyes: Contains materials that may cause moderate irritation, including burning sensation tearing, redness or swelling.

Medical conditions aggravated by exposure: Dermatitis, lung conditions(i.e. asthma), sensitization, allergies, skin and eye conditions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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COMPONENTS	CAS #	OSHA PEL	ACGIH TLV
Dispersion	Trade secret	NA	NA
Acrylate ester	Trade secret	NA	NA
Acrylate ester	Trade secret	NA	NA
Wetting agent	Trade secret	NA	NA
Initiator blend	Trade secret	NA	NA

4. FIRST AID MEASURES

- Ingestion:** Drink two glasses of water to dilute. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult physician or poison control center immediately. Treat symptomatically. Be prepared to provide the attending physician with a copy of this document.
- Inhalation:** Remove victim to a well ventilated area. Give oxygen or artificial respiration as required. Treat symptomatically and consult physician.
- Skin contact:** Remove contaminated clothing. Wash thoroughly with mild soap and warm water. Consult a physician if there is any persisting irritation.
- Eye contact:** Flush with copious amounts of water for at least fifteen minutes. Consult physician.

5. FIRE-FIGHTING MEASURES

- Special firefighting procedures:** Full protective equipment is recommended to protect fire fighters from any hazardous decomposition products. Water may be unsuitable for use on burning liquids. If water must be used, fog nozzles are highly preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition, explosion, or rupture when exposed to extreme heat.
- Unusual fire and explosion hazards:** Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flames. Closed containers may rupture or explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may constitute a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
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6. ACCIDENTAL RELEASE MEASURES

Place leaking containers in a well ventilated area. Avoid breathing vapors. Eliminate all sources of heat, as well as all conditions noted in section vii, above. Notify proper authorities if public waters or sewers are contaminated.

As a hazardous waste, this material must be disposed of in accordance with all federal, state, and local ordinances. Inquire of your local environmental agencies for the exact legal requirements in your area.

7. HANDLING AND STORAGE

Safe handling: Avoid skin contact. Avoid eye contact with vapors, mists, or spray. Avoid breathing of vapors, mists or spray. Use only with adequate ventilation. Do not eat, drink or smoke in areas of use or storage. Wash thoroughly after handling.

Storerooms and containers: Avoid all sources of ignition. Store out of direct sunlight, away from excessive heat. Store away from oxidizing agents. Keep in well-ventilated area. Keep containers tightly closed. Empty containers may contain product residue. Do not reuse.

Specific uses: For use in Jet-I printers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No specific occupational exposure limit has been established for this product.

Personal protective equipment

Respiratory protection: Avoid inhalation of vapors. Ventilation is not required in open air environments or in rooms with large volumes of fresh air. Proper ventilation is required when operating in a small enclosed room to ensure an adequate supply of fresh air. Good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Proper ventilation is required when operating in a small enclosed room to ensure an adequate supply of fresh air.

Hand protection: Avoid contact with skin. Wear chemical resist gloves where excessive contact is likely.

Eye protection: Avoid contact with eyes. Wear safety glasses with side shields or goggles if splashing is likely.

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Work/hygienic practices: Wash hands before eating, using tobacco products, or using the washroom. Tobacco and food should be consumed in designated areas only.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point: >160C
Vapor pressure: <1 mm hg @20C
Vapor density: heavier than air
Solubility in water: negligible
Appearance and odor: acrylate odor, color varies
Flashpoint: >93C
Extinguishing media: alcohol foam CO2, dry chemical water fog
Corrosive: no

10. STABILITY AND REACTIVITY

Stability

Conditions to avoid: Strong acids, oxidizers, alkali metal hydroxides, polymerization initiators, peroxides, inert gases, amines, extreme temperatures, direct sunlight, X-ray sources, electron beam sources, UV radiation sources.

Hazardous decomposition or byproducts: Carbon monoxide, carbon dioxide, mixed oxides of nitrogen, sulfur and methacrylate monomers.

Hazardous polymerization See above.

See precautions under Handling & Storage (Section 7)

11. TOXICOLOGICAL INFORMATION

Toxicological tests: This information is based on findings from related or similar materials.
LD50/LC50 values that are relevant for classification
Primary irritant effect
Sensitization
Experience on practice

Acute effects (toxicity tests): Pre-existing medical conditions which may be aggravated by exposure include disorders of the skin and respiratory system.

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12. ECOLOGICAL INFORMATION

Environmental toxicity or biodegradation tests have not been done on this product. However, the manufacturers of components in this product state that these components should not be allowed to enter the soil, waterways or waste water as they could be harmful to the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product: Incinerate in an industrial or commercial facility or recycle as permitted by local, regional, state, provincial, municipal or federal regulations.

Contaminated packaging: Do not allow product to be discharged into storm drains or sanitary sewers or any public or private waterway.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. TRANSPORT INFORMATION

This product is not subject to the following transport regulations: DOT, ICAO/IATA, IMDG/IMO and Canadian TDG.

15. REGULATORY INFORMATION

All components used are either listed or excluded from listing on the TSCA inventory.

SARA Title III section 313 information:

This product contains the following toxic chemicals subject to the annual reporting requirements of section 313 Title III of the superfund amendments and reauthorization act of 1986 and 40 CFR 372:

Glycol ether family

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe



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handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
