

MATERIAL SAFETY DATA SHEET

MSDS Name: 67-14-N FIRE ORANGE VINYL SCREEN INK

Revision Date: 02/04/00

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SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: 67-14-N FIRE ORANGE VINYL SCREEN INK
CAS Number MIXTURE
HMIS Rating: Health: 1 Fire: 2 Reactivity: 0

Company Identification: DAY-GLO COLOR CORP.
4515 SAINT CLAIR AVENUE
CLEVELAND OH 44103

Telephone/Fax: (216) 391-7070 (216) 391-7751
Chemtrec (24 hr. Emergency) (800) 424-9300

Product Class SCREEN PRINTING INK
Trade Name FIRE ORANGE VINYL SCREEN INK
Product Code 67-14-N

SECTION II - INGREDIENT AND HAZARD INFORMATION

| Ingredient Name | CAS Number | Percent |
|---|------------|---------|
| 1-METHOXY-2-PROPANOL ACETATE | 00108-65-6 | 15 - 40 |
| DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE | 88917-22-0 | 10 - 20 |

SECTION III - HAZARDS IDENTIFICATION

EYE CONTACT

May cause irritation.

SKIN CONTACT

May cause irritation.

INHALATION HAZARDS

Outgassing of formaldehyde vapors can be irritating.

INGESTION HAZARDS

Small amounts swallowed are not likely to cause injury. Not a hazard in normal industrial use.

TARGET ORGANS

No organs affected.

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CANCER HAZARDS

This product contains less than 0.1% free formaldehyde and may be capable of outgassing formaldehyde at levels in excess of OSHA's Action Level under some conditions of use. Formaldehyde is a potential cancer hazard. Long term exposure may result in dermatitis or respiratory sensitization for sensitive individuals.

SECTION IV - FIRST AID MEASURES

EYE CONTACT

Immediately flush with water for at least 15 minutes while holding eyelids open. Call a physician.

SKIN CONTACT

Immediately flush with water for at least 15 minutes. For a large splash, flood body under a shower. Call a physician.

INHALATION

Remove to fresh air. Treat symptoms. Call a physician.

INGESTION

Do not induce vomiting. Give water. Call a physician.

SECTION V - FIRE-FIGHTING MEASURES

| | |
|--------------------|-------|
| Flammability Class | II |
| Flash Point: | 114 F |
| Explosive Range: | 0.% |
| | 0.% |

FLAMMABLE PROPERTIES

During a fire, irritating and toxic gases may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

EXTINGUISHING MEDIA

Use dry chemical, alcohol foam or carbon dioxide when fighting fires involving this material.

FIRE FIGHTING INSTRUCTIONS

Keep unnecessary people away. Isolate area. Stay upwind. Wear self-contained breathing apparatus.

SECTION VI - ACCIDENTAL RELEASE MEASURES

CONTAINMENT

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Contain with absorbent material such as clay, soil, or any commercially available absorbent. Dike to prevent entry to sewer systems.

CLEAN-UP

Place in an appropriate recovery or salvage drum for disposal.

CERCLA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (TITLE III)

This is not a regulated material under 40 CFR 117, 302. Notification of spills is not required.

EVACUATION

Not normally necessary. Refer to your organization's Release Response Procedures.

SECTION VII - HANDLING AND STORAGE

HANDLING

Use in a well ventilated area. Use non-sparking tools.

STORAGE

Keep away from heat, sparks, and flame. Store in a cool place.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

| | ACGIH TLV | ACGIH TLV-C | ACGIH STEL | OSHA STEL | OSHA PEL |
|---|-----------|-------------|------------|-----------|----------|
| 1-METHOXY-2-PROPANOL ACETATE | N/est | N/est | N/est | N/est | N/est |
| DIPROPYLENE GLYCOL MONOMETHYL ETHER ACETATE | N/est | N/est | N/est | N/est | N/est |

ENGINEERING CONTROLS

General ventilation is recommended. Additional local exhaust ventilation is recommended where dusts, mists, or vapors may be released.

RESPIRATORY PROTECTION

Use a NIOSH approved respirator with organic vapor cartridge. In the case of formaldehyde levels above OSHA's PEL, use a combination cartridge for formaldehyde and organic vapor.

PERSONAL PROTECTIVE EQUIPMENT

Where contact is likely, chemical resistant gloves and safety glasses

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or goggles are recommended.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|-----------------------------|
| Form: | Flowable paste |
| Appearance/Color: | Orange |
| Odor: | Ester |
| Solubility (in water): | Insoluble |
| Boiling Range: | 302-409 F |
| Evaporation Rate: | Slower than n-Butyl Acetate |
| Vapor Density: | Heavier than air |
| % Volatile Weight | 44.67% |
| % Volatile Volume: | 44.72% |
| Weight/Gallon: | 9.40 |
| VOC | 443 g/l |

SECTION X - STABILITY AND REACTIVITY

| | |
|---------------------------|---|
| Stability: | This product is stable |
| Hazardous Polymerization: | Hazardous polymerization will not occur |

CONDITIONS TO AVOID

Heat, sparks, and open flame.

INCOMPATIBILITIES

Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS

In the event of combustion, oxides of carbon, nitrogen and sulfur will be formed.

SECTION XI - TOXICOLOGICAL INFORMATION

No toxicological studies have been conducted on this product.

SECTION XII - ECOLOGICAL INFORMATION

No studies have been conducted on this product.

SECTION XIII - DISPOSAL

Dispose of in accordance with local, state, and federal regulations.

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SECTION XIV - TRANSPORT INFORMATION

UN Number

Packaging Group

Hazard Class

Shipping Name

Not regulated for ground shipments,
except in bulk quantities.

SECTION XV - REGULATORY INFORMATION

SARA TITLE III SECTION 313:

This product contains no chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act.

-PROP 65 (CARCINOGEN)

WARNING: This product contains a chemical known to the state of California to cause cancer.

Ingredient Name

CAS Number

FORMALDEHYDE

00050-00-0

EPA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200

This product is a hazardous material as defined. See Section II for hazardous ingredients in this product.

SARA SECTIONS 311 AND 312

Reporting of this product is required under the following EPA hazard categories:

- Immediate (acute) health hazard
- Delayed (chronic) health hazard
- Fire hazard
- Sudden release of pressure hazard
- Reactive hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components in this product are listed, or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) 8(b) Inventory.

CLEAN WATER ACT

This product contains no ingredients regulated by the Clean Water Act.

CLEAN AIR ACT

This product contains no ingredients regulated by the Clean Air Act.

HAZARDOUS AIR POLLUTANTS (HAPS)

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This product contains no Hazardous Air Pollutants (HAP's).

CLEAN AIR ACT AMMENDMENTS (ODS)

No DAY-GLO product contains an ozone depleting substance (ODS), nor are any of our products manufactured with them.

COALITION OF NORTHEAST GOVERNORS (CONEG)

This product is in compliance with CONEG (i.e., total cadmium, chromium, lead and mercury < 100 ppm).

FDA 21 CFR

DAY-GLO Color Corp. products are not listed by the FDA for use under 21 CFR since potential applications are so numerous that specific applications must be submitted to the FDA for inclusion in the 21 CFR FDA listing.

SECTION XVI - OTHER INFORMATION

LABEL INFORMATION

67-14-N FIRE ORANGE VINYL SCREEN INK

HEALTH - 1 FLAMMABILITY - 2 REACTIVITY - 0

PRECAUTIONS: Combustible. Contains less than 0.1% formaldehyde, a potential cancer hazard, and may be capable of outgassing to levels above OSHA's Action Level with possible respiratory sensitization. Avoid flame or sparks even on empty container. Use and store with adequate ventilation.

FIRST AID: EYES: Flush for 15 minutes. SKIN: Wash with soap & water. INGESTION: Give water, do not induce vomiting. Call a physician.

FIRE FIGHTING USE: Foam, CO2, or Dry Chemical.

SPILL CONTROL: Dike to prevent spread or entry to sewer. Remove ignition sources. Absorb on inert material and incinerate.

CONTAINS:

CAS NO. OR NJ TSRN:

1-METHOXY-2-PROPANOL ACETATE 00108-65-6

DIPROPYLENE GLYCOL MONOMETHYL ETHER 88917-22-0

ACETATE

2-METHOXY-1-PROPANOL ACETATE N/A

VINYL RESIN 09005-09-8

RESIN 39277-28-6

EPOXY RESIN 25068-38-6

TARGET ORGANS: NO ORGANS AFFECTED.

MATERIAL V.O.C.: 443 g/l

CALIFORNIA PROP 65: This product contains a component known to the state of California to cause cancer: Formaldehyde (50-00-0).

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NOTE - Additional information is available from your Employer & the Material Safety Data Sheet.

- See MSDS for transportation classification.

DISCLAIMER

The information contained herein is believed to be accurate, but is not warranted. Nothing contained herein constitutes a specification, nor is it intended to warrant suitability for the intended use.
