

# Material Safety Data Sheet

## 1'8 DIAZAFLUORENE-9-ONE (DFO)

### SECTION 1- IDENTITY

NAME Evident Crime Scene Products		ADDRESS 739 Brooks Mill Road, Union Hall, VA 24176	
TELEPHONE 800-576-7606	FOR ADDITIONAL INFORMATION CONTACT: Technical Support		DATE PREPARED: January 1, 2010
COMMON NAME (USED ON LABEL) DFO			CHEMICAL FAMILY: N/A (Chemical mixture)
CHEMICAL NAME: Does Not Apply	FORMULA: Does not apply	TRADE NAME & SYNONYMS: 1'8 DIAZAFLUORENE-9-ONE (DFO)	

### SECTION 2- HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS#	TLV	PEL
METHANOL	67-56-1	200 ppm	200 ppm
ETHYL ACETATE	141-78-6	400 ppm	400 ppm
ACETIC ACID	64-19-7	25 mg/M3	25 mg/M3
PETROLEUM ETHER	8032-32-4	300 ppm	300 ppm
HEPTANE	142-82-5	400 ppm	400 ppm
METHYLCYCLOHEXANE	108-87-2	400 ppm	400 ppm

PEL: Permissible Exposure Limit established by Occupational Safety and Health Administration

TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists

### PHYSICAL DATA

BOILING POINT: 200F (Heptane)	SPECIFIC GRAVITY: 0.699 @ 60F (Heptane)	VAPOR PRESSURE: 45mm @ 50C (Heptane)	VAPOR DENSITY: 3.4 (Heptane)
PERCENT VOLATILE (VOL) 90%+	SOLUBILITY (WATER) Miscible	REACTIVITY IN WATER: None	EVAPORATION RATE: High

#### APPEARANCE AND ODOR:

A yellowish fluid, odor of alcohol, HIGHLY FLAMMABLE (Heptane)

### SECTION 4- FIRE AND EXPLOSION DATA

FLASH POINT: 15F (Heptane)	AUTO IGNITION TEMPERATURE 475F (Heptane)	FLAMMABLE LIMITS IN AIR (% by VOLUME) LOWER: 1% (Heptane)      UPPER: 7% (Heptane)	
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#### EXTINGUISHING MEDIA:

Water Spray, Carbon Dioxide, or dry chemical powder

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Emits toxic fumes under fire conditions

#### SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus and protective clothing

#### CONTINUED ON REVERSE SIDE

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Evident Crime Scene Products & Crime Scene Supply, Incorporated shall not be held liable for any damage or injury to any party, or second party, or bystander resulting from the use, handling, or from contact with the above product..

## SECTION 5- HEALTH INFORMATION

**PRIMARY ROUTES OF EXPOSURE**

Inhalation, ingestion, or absorption through skin

**SIGNS & SYMPTOMS OF EXPOSURE**
**1: ACUTE OVEREXPOSURE:**

May cause eye, skin, or respiratory irritation

**2: CHRONIC OVEREXPOSURE:**

Possible mutagenic effects, possible carcinogen

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

May cause eye, skin, or respiratory irritation

**CHEMICAL /COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:**

None

**OTHER EXPOSURE LIMITS:**

Not established

**EMERGENCY & FIRST AID PROCEDURES:**

**EYES:** Flush with cool tap water for at least 15 minutes

**SKIN:** Wash thoroughly with warm water and soap

**RESPIRATORY:** Remove to fresh air, if distress continues, administer oxygen and contact physician

**INGESTION:** Drink large amounts of water, do not induce vomiting, rinse mouth with water

IN ALL CASES IF IRRITATION OR DISTRESS PERSISTS, CONTACT PHYSICIAN OR NEAREST POISON CONTROL CENTER

## SECTION 6- REACTIVITY DATA

**STABILITY:**

Stable

**CONDITIONS TO AVOID:**

Ignition sources, high temperatures

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Strong Oxidizers, Strong acids

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Toxic Fumes of carbon Monoxide, Carbon Dioxide, and Nitrogen Oxides under fire conditions, Ethyl Acetate reacts explosively with Aluminum Hydride

**HAZARDOUS POLYMERIZATION:**

Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION)**

Not applicable for polymerization

## SECTION 7- SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED:**

Eliminate all sources of ignition. Wear protective equipment. For small spills, absorb on paper towels, evaporate in fume hood. Burn the absorbed material in an incinerator.

**WASTE DISPOSAL METHOD:**

Dispose of wastes in accordance with current Federal, State, and Local codes and guidelines.

## SECTION 8- PERSONAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:**

In cases where dusts or powders exist- use NIOSH/MSHA Approved Organic Vapor Respirator

**VENTILATION:**

Room ventilation is expected to be adequate except during spills or fires, However additional ventilation is recommended.

**PROTECTIVE GLOVES:**

Chemical resistant gloves

**EYE PROTECTION:**

Suggested when the potential of splashes or contact with the eyes or face is possible

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

An eye wash fountain and safety shower should be readily available where the potential for splashes or eye contact with the reagent exists

## SECTION 9- SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Store and handle according to package and MSDS directions. Store in cool, well-ventilated area. Keep away from reactive materials and away from fire hazard or source of ignition.

**OTHER PRECAUTIONS:**

Do not ingest, get in eyes, on skin, or on clothing. Avoid breathing dust or vapor. Wash thoroughly after handling.

**TRANSPORTATION**

Shipping Name: Heptane Solution Hazard Class: 3 UN# 1206 Packing Group: II Flammable Liquid

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