

Material Safety Data Sheet

INDANEDIONE SOLUTION

(3M HFE-7100-Based Premix)

SECTION 1- IDENTITY

NAME Arrowhead Forensics		ADDRESS 14400 College Blvd., Lenexa, KS 66215	
TELEPHONE (913)894-8388	FOR ADDITIONAL INFORMATION CONTACT:		DATE PREPARED: October 1, 2008
COMMON NAME (USED ON LABEL) Indanedione (HFE-7100-Based Premix)			CHEMICAL FAMILY: N/A (Chemical mixture)
CHEMICAL NAME: Does Not Apply	FORMULA: Does not apply	TRADE NAME & SYNONYMS: 1,2-indanedione, Novex HFE-7100	

SECTION 2- HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS#	TLV	PEL
ACETIC ACID (<0.1%)	64-19-7	25 mg/M3	25 mg/M3
ETHYL ACETATE (<0.1%)	141-78-6	400 ppm	400 ppm

SOLUTION IS NONHAZARDOUS NOT REGULATED LIMITED QUANTITY

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: 61C (HFE-7100)	SPECIFIC GRAVITY: 1.5 g/mL (HFE-7100)	VAPOR PRESSURE: 202mm @2 5C (HFE-7100)	VAPOR DENSITY: 8.6 (HFE-7100)
PERCENT VOLATILE (VOL) 98%+	SOLUBILITY (WATER) < 12 ppm	REACTIVITY IN WATER: None	EVAPORATION RATE: High

APPEARANCE AND ODOR:
A clear fluid, minor odor of vinegar

SECTION 4- FIRE AND EXPLOSION DATA

FLASH POINT: None Non-Flammable	AUTO IGNITION TEMPERATURE 405 C (HFE-7100)	FLAMMABLE LIMITS IN AIR (% by VOLUME) LOWER: None UPPER: None
EXTINGUISHING MEDIA: N/A		
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. Arrowhead Forensics & 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:
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, Strong Bases,

HAZARDOUS DECOMPOSITION PRODUCTS:

Toxic Fumes of carbon Monoxide, Carbon Dioxide, Hydrogen Fluoride 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:

Wear protective equipment. For small spills, absorb on paper towels, evaporate in fume hood or 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:

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, Nitrile or Neoprene

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 high temperature.

OTHER PRECAUTIONS:

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

TRANSPORTATION

NONHAZARDOUS NOT REGULATED LIMITED QUANTITY EXCEPTION

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