



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 1,2 Indanedione		DATE: August 01, 2011	
PRODUCT NUMBER: 1-2785 (1004118), 1-2786 (1004119), 1-2787 (1004120), 1-2788 (1004121)			
TRADE NAME: 1,2 Indanedione GENERAL USE: Fingerprint Developer CHEMICAL FAMILY: Organic PRODUCT DESCRIPTION: Yellow crystals with negligible odor.			
MANUFACTURER: Safariland LLC		DATE PREPARED: August 1, 2011	
ADDRESS (NUMBER, STREET, P.O. BOX): 13386 International Parkway		SUPERSEDES: September 3, 2008	
(CITY, STATE AND ZIP CODE): Jacksonville, FL. 32218		TELEPHONE NUMBER FOR INFORMATION / Customer Service: 800-347-1200	
COUNTRY: USA		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER  1-800-255-3924 01-813-248-0585 North America Toll Free International	

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
 May be harmful by inhalation, ingestion, and skin absorption. Risk of serious damage to eyes. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Sensitizer.

POTENTIAL HEALTH EFFECTS

INHALATION:
 Irritating to the mucous membranes. Symptoms include coughing, sore throat, and wheezing. Respiratory sensitizer.

SKIN:
 Slight irritation may occur with exposure.

EYES:
 Severe irritant. Irritation, redness and/or pain may occur with exposure.

INGESTION:
 Product is irritating and somewhat toxic. Nausea, gastro-intestinal distress, and vomiting may result.

CARCINOGENICITY:
 NTP? **NO** IARC MONOGRAPHS? **NO** OSHA REGULATED? **NO**
 CALIFORNIA, Prop.65? **NO**

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
1,2-Indanedione	>90	16214-27-0	NR	Xn, Xi	R-22,R37/38, R41,R43, R52/53

SECTION 4 - FIRST AID MEASURES

INHALATION:
 Remove victim to fresh air, providing oxygen or artificial respiration if needed. Seek medical attention promptly for severe or persistent cases..

EYES:
 Flush with water for 15 minutes. Seek emergency medical help.

SKIN:
 Rinse with copious amounts of water . Wash with soap and water and launder contaminated clothing before re-use.

INGESTION:
 Do not induce vomiting. Give large quantities of water to rinse out mouth and call a physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
 Unknown flammability.

EXTINGUISHING MEDIA:
 Dry chemicals, foam, carbon dioxide, or water.

FIRE FIGHTING PROCEDURES:
 Emergency responders should wear bunker gear and Self-Contained Breathing Apparatus (SCBA). Proper eye and skin protection should also be used. Water spray can be used to cool equipment and reduce vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
 None

HAZARDOUS COMBUSTION PRODUCTS:
 Carbon Oxides, smoke, and soot.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Sweep up powder and place in appropriate receptacle. Avoid creating dust clouds.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Do not store above 120°F. Store in cool, dry, ventilated area. Avoid breathing dust.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	TLV/TWA ppm	TWA mg/m ³	STEL ppm	PEL mg/m ³
1,2-Indanedione	NE		NE		NE		NE	

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Where ventilation is insufficient, use an OSHA/NIOSH or EU approved vapor respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

PROTECTIVE GLOVES:

Gloves are recommended for use of this product.

EYE PROTECTION:

Safety glasses or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Lab coat or apron

WORK / HYGIENIC PRACTICES:

Do not smoke, eat, or drink while using this product. Immediately wash hands after use. Use good laboratory hygiene practices.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Yellow crystals with negligible odor.	VAPOR PRESSURE NE
pH NA	SPECIFIC GRAVITY (WATER = 1) NE
BOILING POINT / BOILING RANGE NE	SOLUBILITY IN WATER NE
FLASH POINT NE	VISCOSITY NA
FLAMMABLE LIMITS LEL: NE UEL: NE	VAPOR DENSITY (AIR = 1) NE
AUTO-IGNITION TEMPERATURE NE	EVAPORATION RATE (WATER = 1) NE

SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE X	CONDITIONS TO AVOID: Excessive heat, elevated temperatures, oxidizers
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INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Carbon Oxides

HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.
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SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
1,2-Indanedione	16214-27-0 NR	NE	NE

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of product waste as well as containers in accordance with all local, state and federal regulations.

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SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not Regulated for Transport.			
DOT HAZARD CLASS / Pack Group:	None	IATA HAZARD CLASS / Pack Group:	None
REFERENCE:		IMDG HAZARD CLASS:	None
UN / NA IDENTIFICATION NUMBER:	None	RID/ADR Dangerous Goods Code:	None
LABEL:	None	UN TDG Class / Pack Group:	None
HAZARD SYMBOLS:	None	Hazard Identification Number (HIN):	None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act):	Not Listed.
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):	NO
Acute Health: YES	Chronic Health: YES
Fire: NO	Sudden Release of Pressure: NO
Reactive: NO	
313 REPORTABLE INGREDIENTS:	No
CERCLA (USA - Comprehensive Response Compensation and Liability Act):	Not listed.
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:	Not listed.
State Right to Know: Indan-1,2-dione: NJ, PA	
IDL (Canadian Ingredient Disclosure List):	Not Listed
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):	Not Listed.
EINECS (European Inventory of Existing Commercial Chemical Substances):	Not Listed.
WGK Water Quality Index:	2

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
R22: Harmful if swallowed. R37/38: Irritating to respiratory system and skin. R41: Risk of serious damage to eyes. R43: May cause sensitization by skin contact. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets.

SECTION 16 - OTHER INFORMATION

Legend: NA= Not applicable, NE= Not established, ND= Not determined.

HMIS HAZARD RATINGS	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	3 0 0 B	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
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REVISION SUMMARY:
 Revised to E.U. protocols 8/1/2011 supersedes 9/3/2008 issue.LB/JTV

MSDS Prepared by:
 ChemTel Inc.
 1305 North Florida Avenue
 Tampa, Florida USA 33602-2902
 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
 Website: www.chemtelinc.com



The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.