

EMS CATALOG NO: 19030

DATE: 06/15/2006

EMS PRODUCT: **Ninhydrin**

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**MATERIAL SAFETY DATA SHEET**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

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PRODUCT NAME: **Ninhydrin**

CAS NO: 485-47-2

SYNONYMS: 2,2-Dihydroxy-1,3-Indandione  
2,2-Dihydroxy-1H-Indene-1,3(2H)-Dione  
1,2,3-Indantrione, 2-hydrate  
1,2,3-Indantrione Monohydrate

Ninhydrin  
Ninhydrin Hydrate  
Triketohydridene Hydrate

APPEARANCE & ODOR: White to Yellow Powder.

MELTING POINT: 250°C

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### HAZARDOUS IDENTIFICATION

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#### LABEL PRECAUTIONARY STATEMENTS:

Harmful. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. Rubefacient. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing.

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### FIRST AID MEASURES

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In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Wash contaminated clothing before reuse.

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### FIRE FIGHTING MEASURES

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#### EXTINGUISHING MEDIA:

Water spray. Carbon Dioxide, dry chemical powder or appropriate foam.

#### SPECIAL FIREFIGHTING PROCEDURES:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### UNUSUAL FIRE & EXPLOSIONS HAZARDS:

Emits toxic fumes under fire conditions.

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#### ACCIDENTAL RELEASE MEASURES

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Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup if complete.

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#### EXPOSURE CONTROLS/PERSONAL PROTECTION

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Wear appropriate NIOSH/MSHA approved respirator, chemical resistant gloves, safety goggles, other protective clothing.  
Use only in a chemical fume hood. Safety shower and eye bath.  
Avoid inhalation. Avoid all contact. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Irritant.  
Rubefacient. Harmful solid. Keep tightly closed. Light sensitive. Store in a cool dry place.

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#### STABILITY AND REACTIVITY

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#### INCOMPATIBILITIES:

Strong oxidizing agents. May discolor on exposure to light.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

Toxic Fumes of: Carbon Monoxide, Carbon Dioxide.

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TOXICOLOGICAL INFORMATION

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ACUTE EFFECTS:

May be harmful by inhalation, ingestion, or skin absorption. Causes eye and skin irritation. Material is irritating to mucous membranes and upper respiratory tract. Causes reddening of the skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ADDITIONAL INFORMATION:

This material is a rubefacient, skin contact will result in a reddening of the site with possible inflammation.

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RTECS NO: NK5425000

1,3-Indandione, 2,2-Dihydroxy

TOXICITY DATA:

IPR-MUS LD50: 78 mg/kg

CRSBAW 151,719,57

TARGET ORGAN DATA:

Behavioral (Somnolence)

Vascular (Regional or general arteriolar or venous dilation)

Lungs, thorax, or respiration (Dyspnea)

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

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## DISPOSAL CONSIDERATIONS

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Dissolve or mix the material with combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and Local environmental regulations.

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## REGULATORY INFORMATION

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### REVIEWS, STANDARDS, AND REGULATIONS:

NOH 1974: HZD A1175; NIS 1; TNF 33; NOS 2; TNE 594  
NOES 1983: HZD A1175; NIS 4; TNF 476; NOS 9; TNE 5564;  
TFE 4002  
EPA  
TSCA Chemical Inventory, January 1993

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## ECOLOGICAL INFORMATION

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Data not yet available.