

MATERIAL SAFETY DATA SHEET  
Ninhydrin

## Section 1 - Chemical Product and Company Identification

<b>MSDS Name:</b>	Ninhydrin
<b>Catalog Numbers:</b>	41572-0000, 41572-0100, 41572-0250
<b>Synonyms:</b>	1,2,3-Indantrione; 1,2,3-Triketohydrindene; 2,2-Dihydroxy-1H-indene-1,3(2H)-dione; 1H-Indene-1,2,3-trione
<b>Company Identification:</b>	Acros Organics BVBA Janssen Pharmaceuticaaan 3a 2440 Geel, Belgium
<b>Company Identification: (USA)</b>	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
<b>For information in the US, call:</b>	800-ACROS-01
<b>For information in Europe, call:</b>	+32 14 57 52 11
<b>Emergency Number, Europe:</b>	+32 14 57 52 99
<b>Emergency Number US:</b>	201-796-7100
<b>CHEMTREC Phone Number, US:</b>	800-424-9300
<b>CHEMTREC Phone Number, Europe:</b>	703-527-3887

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
485-47-2	Ninhydrin		207-618-1

**Hazard Symbols:** XN

**Risk Phrases:** 22 36/37/38

## Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**
*Harmful if swallowed. Irritating to eyes, respiratory system and skin. Light sensitive.*
**Potential Health Effects**

<b>Eye:</b>	Causes eye irritation.
<b>Skin:</b>	Causes skin irritation. May be harmful if absorbed through the skin.
<b>Ingestion:</b>	Harmful if swallowed. May cause irritation of the digestive tract.
<b>Inhalation:</b>	Causes respiratory tract irritation. May be harmful if inhaled.
<b>Chronic:</b>	

## Section 4 - First Aid Measures

- Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
- Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Ingestion:** Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
- Inhalation:** Remove from exposure and move to fresh air immediately.
- Notes to Physician:**

## Section 5 - Fire Fighting Measures

- General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
- Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

## Section 6 - Accidental Release Measures

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

## Section 7 - Handling and Storage

- Handling:** Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.
- Storage:** Store in a cool, dry place. Keep container closed when not in use.

## Section 8 - Exposure Controls, Personal Protection

- Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

CAS# 485-47-2:

### Personal Protective Equipment

- Eyes:** Wear safety glasses and chemical goggles if splashing is possible.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to minimize contact with skin.
- Respirators:** Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

## Section 9 - Physical and Chemical Properties

**Physical State:** Crystals

**Color:** white - brown white

**Odor:** Not available

**pH:** 4.6-5.6 (1% aq.sol.)

**Vapor Pressure:** Not available

**Viscosity:** Not available

**Boiling Point:** Not available

**Freezing/Melting Point:** 250 deg C(decom)

**Autoignition Temperature:** Not available  
**Flash Point:** Not available  
**Explosion Limits: Lower:** Not available  
**Explosion Limits: Upper:** Not available  
**Decomposition Temperature:**  
**Solubility in water:** Soluble  
**Specific Gravity/Density:**  
**Molecular Formula:** C9H4O3  
**Molecular Weight:** 178.14

### Section 10 - Stability and Reactivity

**Chemical Stability:** Not available  
**Conditions to Avoid:** Incompatible materials, light.  
**Incompatibilities with Other Materials** Strong oxidizing agents.  
**Hazardous Decomposition Products** Carbon monoxide, carbon dioxide.  
**Hazardous Polymerization** Has not been reported.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 485-47-2: NK5425000  
**LD50/LC50:** RTECS: Not available.  
**Carcinogenicity:** Ninhydrin - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
**Other:** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

Not available

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

### Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not available	Not available	Not available
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

### Section 15 - Regulatory Information

#### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28A After contact with skin, wash immediately with plenty of water.

WGK (Water Danger/Protection)

CAS# 485-47-2: 2

Canada

CAS# 485-47-2 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 485-47-2 is listed on the TSCA Inventory.

**Section 16 - Other Information**

**MSDS Creation Date:** 7/16/1996

**Revision #0 Date** Original.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.*

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