

**1. Identification**

Product Code **CN3900-44**

Product Name **NINHYDRIN (spectrophotometric grade)**

Molecular Formula  $C_6H_4COC(OH)_2CO$  =178.14

CAS Number 485-47-2

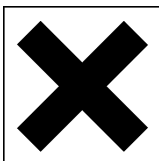
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(Have this document to hand)

**2. Composition**

| Component                            | CAS No   | EEC No    | Conc w/w | Classification & Risk Phrases | Exp (See 8.1) |
|--------------------------------------|----------|-----------|----------|-------------------------------|---------------|
| NINHYDRIN (spectrophotometric grade) | 485-47-2 | 207-618-1 | 100.0%   | Xn : R20/21/22,R36/37/38      | N/A           |

**3. Hazards Identification**

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

**4. First Aid Measures**

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

Inhalation Remove from exposure. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation.

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

**5. Fire Fighting Measures**

Hazards Wear breathing apparatus & protective clothing to prevent contact with skin & eyes.

Extinguishing Media Water spray, foam, dry powder or carbon dioxide.

Unsuitable Media Nothing specified.

**6. Accidental Release Measures**

Personal Protection Avoid breathing dust-wear respiratory protective equipment. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so.

Enviromental Not specified.

## 6. Accidental Release Measures (continued)

|                |                                                                                                                             |
|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| Major Spillage | Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. |
| Minor Spillage | Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. |

## 7. Storage & Handling

|                      |                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling Precautions | Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.<br><br>Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits. |
| Storage Conditions   | Well ventilated, cool, dry storage .                                                                                                                                                            |

## 8.1 Occupational Exposure Limits

No prescribed exposure limits available

## 8.2 Personal Protection

|             |                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------|
| Respiratory | Wear NIOSH/MSHA-approved respirator.                                                                               |
| Hands       | Wear gloves.                                                                                                       |
| Eyes        | Use chemical splash proof glasses or goggles.                                                                      |
| Skin        | Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn. |

## 9. Physical & Chemical Properties

|                       |                         |
|-----------------------|-------------------------|
| Appearance            | White to yellow powder. |
| Odour                 | Not specified.          |
| pH                    | Not available           |
| Boiling point         | Not available           |
| Melting point         | 250.0 °C                |
| Flash point           | Not available           |
| Upper Flammable Limit | Not available           |
| Lower Flammable Limit | Not available           |
| Auto Ignition         | Not available           |
| Explosive properties  | No.                     |
| Oxidising Properties  | No.                     |
| Vapour Pressure       | Not available           |
| Relative Density      | Not available           |
| Water Solubility      | Not specified.          |

## 10. Stability & Reactivity

|                                  |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| Chemical Stability               | Stable under normal conditions                                       |
| Conditions to Avoid              | Exposure to light.                                                   |
| Materials to Avoid               | Strong oxidising agents.                                             |
| Hazardous Decomposition Products | In combustion emits toxic fumes of carbon dioxide & carbon monoxide. |

## 11. Toxicological Information

|           |                                                                                                           |
|-----------|-----------------------------------------------------------------------------------------------------------|
| Eyes      | Contact with the solid or dust will be irritating to the eyes.                                            |
| Skin      | Contact with the solid or dust may be harmful if absorbed through the skin. Causes reddening of the skin. |
| LD50 Skin | Not available                                                                                             |
| Ingest    | May be harmful by ingestion.                                                                              |

## 11. Toxicological Information (continued)

|                      |                                    |
|----------------------|------------------------------------|
| LD50 Ingest          | Not available                      |
| Inhalation           | Inhalation of dust may be harmful. |
| Carcinogenicity      | Not considered to be a carcinogen. |
| Mutagenicity         | Not considered to be a mutagen.    |
| Reproductive Effects | None identified.                   |

## 12. Ecological

Not specified.

## 13. Disposal Considerations

|                        |                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Disposal Methods       | Dissolve or mix the material with a combustible solvent. Burn in a chemical incinerator equipped with afterburners and scrubbers. |
| Contaminated Packaging | Use a licensed waste disposer.                                                                                                    |

## 14. Transport Information

|                      |                |
|----------------------|----------------|
| Proper Shipping Name | Non-restricted |
| UN Number            | Non-restricted |
| UN Classification    | None           |
| Subsidiary Risk      | None           |
| Flash Point          | Not available  |
| Packing Group        | None           |
| Marine pollutant     | No             |
| ADR Hazard ID        | Non-restricted |

## 15. Regulatory Information

|                |          |
|----------------|----------|
| Labelling      | Harmful. |
| Classification |          |

|               |                                                                                           |
|---------------|-------------------------------------------------------------------------------------------|
| Label Symbols | Xn<br> |
|---------------|-------------------------------------------------------------------------------------------|

|                       |                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Risk & safety Phrases | Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. 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. |
| EEC Number            | 207-618-1                                                                                                                                                                                                                                                                                                       |

## 16. Other Information

|                      |                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Document Information | <p>This document has been prepared in accordance with directive 88/379/EEC.</p> <p>The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.</p> <p>Revision Date: 19/08/03.<br/>Data reviewed and PDF file generated: 07/06/04.<br/>Copyright 2004 Beecroft &amp; Partners.</p> |
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