

**MATERIAL SAFETY DATA SHEET****Product Name:** Ninhydrin**CAS No.:** 485-47-2**Version:** 0**1. Identification**

**Product Code** : 91876  
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**2. Hazards Identification****Hazard classification**

Acute toxicity, Oral : Category 4  
Skin irritation : Category 2  
Eye irritation : Category 2  
Specific target organ toxicity - single exposure : Category 3

**Label elements****Hazard symbol**

**Signal word** : Warning  
**Hazard statement** : Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
**Precautionary statement** : Avoid breathing dust  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
**Supplemental Hazard Statements** : None.

**3. Composition/information on ingredients**

<b>Ingredient</b>	<b>CAS No</b>
Ninhydrin	485-47-2

**MATERIAL SAFETY DATA SHEET****Product Name:** Ninhydrin**CAS No.:** 485-47-2**Version:** 0**4. First Aid Measures****Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation**

: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact**

: Wash off with soap and plenty of water. Consult a physician.

**Eye contact**

: Flush eyes with water as a precaution.

**Swallowed**

: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed Treatment**

: No data available

**5. Fire fighting measures****Extinguishing media****Suitable extinguishing media**

: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

: Carbon oxides

**Advice for firefighters**

: Wear self contained breathing apparatus for fire fighting if necessary

**Further information**

: No data available

**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

: Do not let product enter drains.

**Methods and materials for containment and cleaning up**

: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections**

: For disposal see section 13.

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- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Store under inert gas.  
Non Combustible Solids
- Specific end use(s)** : No data available

**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls**

**Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection** : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.  
Wash and dry hands.

**Body Protection** : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** : Respiratory protection is required.

**9. Physical and Chemical Properties**

**Appearance** : Light yellow crystalline powder.

**Odor** : No data available

**pH** : No data available

**Melting point/freezing point** : 250 °C

**Initial boiling point and boiling range** : No data available

**Flash Point** : No data available

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<b>Vapor pressure</b>	: No data available
<b>Vapor density</b>	: No data available
<b>Relative density</b>	: No data available
<b>Solubility in water</b>	: No data available
<b>Solubility (other)</b>	: No data available
<b>Formula</b>	: C <sub>9</sub> H <sub>6</sub> O <sub>4</sub>
<b>Molecular Weight</b>	: 178.14 g/mol

**10. Stability and Reactivity**

<b>Reactivity</b>	: No data available
<b>Chemical stability</b>	: Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	: No data available
<b>Conditions to avoid</b>	: No data available
<b>Incompatible materials</b>	: Strong oxidizing agents
<b>Hazardous decomposition products</b>	: No data available

**11. Toxicological Information****Information on toxicological effects**

<b>Acute toxicity</b>	: LD50 Oral - Rat - 600 mg/kg
<b>Skin corrosion/irritation</b>	: Moderate skin irritation
<b>Serious eye damage/eye irritation</b>	: Moderate eye irritation
<b>Respiratory or skin sensitization</b>	: No data available
<b>Germ cell mutagenicity</b>	: No data available
<b>Carcinogenicity</b>	: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>Reproductive toxicity</b>	: No data available
<b>Specific target organ toxicity - single exposure</b>	: Inhalation - May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	: No data available
<b>Aspiration hazard</b>	: No data available

**12. Ecological Information**

<b>Toxicity</b>	: No data available
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**Persistence and degradability** : No data available  
**Bioaccumulative potential** : No data available  
**Mobility in soil** : No data available  
**Other adverse effects** : No data available

**13. Disposal consideration**

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.  
**Contaminated packaging** : Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>			Not dangerous goods		
<b>IMDG</b>			Not dangerous goods		
<b>IATA</b>			Not dangerous goods		

**15. Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date** :01/08/2014**Version** : 0

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