



# SAFETY DATA SHEET

Date Revised: Aug 17, 2022

## SECTION 1: Product and Company Identification

**Product Name:** NAO (Nonyl Acridine Orange)

**Catalog Number:** N4002

**Manufacturer/Supplier:**

UElandy (Suzhou) Co., Ltd.

Room 302-1, Building 1, No.18 Chunyao Road, Caohu Industrial Park, Xiangcheng District, Suzhou, P.R. China

Phone: 86-512-69571710, mailbox:service@uelandy.com

Web: <http://www.uelandy.com>

## SECTION 2: Hazards identification

### GHS - Classification

|                                 |                |
|---------------------------------|----------------|
| <b>Signal Word</b>              | None           |
| <b>Hazard pictograms</b>        | None           |
| <b>Health hazards</b>           | Not classified |
| <b>Physical hazards</b>         | Not classified |
| <b>Environmental hazards</b>    | Not classified |
| <b>Hazard Statements</b>        | Not Applicable |
| <b>Precautionary Statements</b> |                |
| <b>Prevention</b>               | Not Applicable |
| <b>Response</b>                 | Not Applicable |
| <b>Storage</b>                  | Not Applicable |
| <b>Disposal</b>                 | Not Applicable |
| <b>Other hazards</b>            | Not Applicable |

### HMIS

Health:0

Flammability:0

Reactivity:0

## SECTION 3: Composition/information on ingredients



The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

## **SECTION 4: First aid measures**

### **In case of skin contact**

Rinse with plenty of water. Immediate medical attention is not required.

### **In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### **If ingested**

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

### **If inhaled**

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

### **Notes to physician**

Treat symptomatically.

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

Not Applicable

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

None.

## **SECTION 5: Firefighting measures**

### **Extinguishing media**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Unsuitable extinguishing media** No information available.

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

Not known.

### **Protective equipment and precautions for firefighters**

Standard procedure for chemical fires.

## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment



Use personal protection equipment

See Section 8 for more detail

**Environmental precautions** void discharge into drains and waterways whenever possible.

**Methods and material for containment and cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**Reference to other sections** See section 8 for more information.

## SECTION 7: Handling and storage

**Precautions for safe handling**

Use personal protective equipment as required. No special handling advices are necessary.

**Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

**Specific end use(s)**

For research use only.

## SECTION 8: Exposure controls/personal protection

**Control parameters**

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

**Exposure controls**

**Personal protective equipment**

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** Avoid discharge into drains and waterways whenever possible.

## SECTION 9: Physical and chemical properties

|               |                             |
|---------------|-----------------------------|
| Chemical Name | NAO (Nonyl Acridine Orange) |
| Appearance    | Solid                       |
| Odor          | No information available    |

|                                           |                          |
|-------------------------------------------|--------------------------|
| Odor Threshold                            | No information available |
| Molecular Weight                          | No information available |
| Boiling point/ Range                      | No information available |
| Melting point/ Range                      | No information available |
| Flash point                               | No information available |
| Auto-ignition temperature                 | No information available |
| Decomposition temperature                 | No information available |
| Evaporation rate                          | No information available |
| Flammability (solid, gas)                 | No information available |
| Upper explosion limit                     | No information available |
| Lower explosion limit                     | No information available |
| Vapor Pressure                            | No information available |
| Vapor density                             | No information available |
| Relative density                          | No information available |
| Specific gravity                          | No information available |
| Solubility                                | No information available |
| Partition coefficient:<br>n-octanol/water | No information available |
| Viscosity                                 | No information available |
| Explosive properties                      | No information available |
| Oxidizing properties                      | No information available |
| Other information                         | No information available |

## SECTION 10: Stability and reactivity

|                                           |                                                             |
|-------------------------------------------|-------------------------------------------------------------|
| <b>Reactivity</b>                         | None known.                                                 |
| <b>Chemical stability</b>                 | Stable under normal conditions.                             |
| <b>Possibility of hazardous reactions</b> | Hazardous reaction has not been reported.                   |
| <b>Conditions to avoid</b>                | No information available.                                   |
| <b>Incompatible materials</b>             | No dangerous reaction known under conditions of normal use. |
| <b>Hazardous decomposition products</b>   | No data available                                           |

## SECTION 11: Toxicological information

Information on toxicological effects



To the best of our knowledge, the chemical, physical, biological, and toxicological properties of this product have not been thoroughly investigated.

#### **Principal Routes of Exposure**

|                                                                  |                                                         |
|------------------------------------------------------------------|---------------------------------------------------------|
| <b>Acute toxicity</b>                                            | Data are conclusive but insufficient for classification |
| <b>Skin corrosion/irritation</b>                                 | No information available                                |
| <b>Serious eye damage/irritation</b>                             | No information available                                |
| <b>Respiratory or skin sensitization</b>                         | No information available                                |
| <b>Specific target organ toxicity (STOT) - single exposure</b>   | No information available                                |
| <b>Specific target organ toxicity (STOT) - repeated exposure</b> | No information available                                |
| <b>Carcinogenicity</b>                                           | No information available                                |
| <b>Germ cell mutagenicity</b>                                    | No information available                                |
| <b>Reproductive toxicity</b>                                     | No information available                                |
| <b>Aspiration hazard</b>                                         | No information available                                |

### **SECTION 12: Ecological information**

|                                           |                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                        | The environmental impact of this product has not been fully investigated. |
| <b>Mobility in soil</b>                   | No information available.                                                 |
| <b>Persistence and degradability</b>      | No information available.                                                 |
| <b>Bioaccumulative potential</b>          | No information available.                                                 |
| <b>Results of PBT and vPvB assessment</b> | No information available.                                                 |
| <b>Other adverse effects</b>              | No information available.                                                 |

### **SECTION 13: Disposal considerations**

#### **Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

### **SECTION 14: Transport information**

|                                   |                                                                     |
|-----------------------------------|---------------------------------------------------------------------|
| <b>IATA / ADR / DOT-US / IMDG</b> | Not classified as dangerous in the meaning of transport regulations |
| <b>UN number</b>                  | Not Applicable                                                      |



|                                                                                 |                 |
|---------------------------------------------------------------------------------|-----------------|
| <b>UN proper shipping name</b>                                                  | Not Applicable  |
| <b>Transport hazard class(es)</b>                                               | Not Applicable  |
| <b>Packing group</b>                                                            | Not Applicable  |
| <b>Environmental hazards</b>                                                    | Not Applicable  |
| <b>Special precautions for user</b>                                             | Not Applicable  |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not Applicable. |

## **SECTION 15: Regulatory information**

### **US Federal Regulations**

**SARA 313** This product is not regulated by SARA.

### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

### **US State Regulations**

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

**WHMIS Hazard Class** Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**National Regulations – Brazil** Not regulated

## **SECTION 16: Other information**

**Reason for revision** SDS sections updated

**Version no.** 2

For research use only. Not for use in diagnostic procedures.

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. UElandy (Suzhou) shall not be held liable for any damage resulting from handling or contact with the above product.