

## Safety Data Sheet

# 14A

## SECTION 1: IDENTIFICATION

### 1.1. PRODUCT IDENTIFIER

Trade name: 14A

### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses of the substance or mixture: Non-destructive testing  
Restricted to professional users.

Uses advised against : None known.

### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company and address: **Magnaflux**  
155 Harlem Ave.  
60025 Glenview, IL  
USA  
847-657-5300  
[www.magnaflux.com/Magnaflux](http://www.magnaflux.com/Magnaflux)

Distributor: Address:

E-mail: [support@magnaflux.com](mailto:support@magnaflux.com)

SDS date: 10/7/2024

SDS Version: 5.0

### 1.4. EMERGENCY TELEPHONE NUMBER

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® ([triage.webpoisoncontrol.org](http://triage.webpoisoncontrol.org)) to get specific guidance for your case  
See also section 4 "First aid measures".

## SECTION 2: HAZARD(S) IDENTIFICATION

### OSHA/HCS STATUS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

This classification is based on the product as sold (in powder form). This classification is not applicable after the product is mixed with a liquid.

### 2.2. LABEL ELEMENTS

Hazard pictogram(s): Not applicable.

Signal word: Warning

Hazard statement(s):

Precautionary statement(s):

|                                          |                                                  |
|------------------------------------------|--------------------------------------------------|
| General:                                 | -                                                |
| Prevention:                              | -                                                |
| Response:                                | -                                                |
| Storage:                                 | -                                                |
| Disposal:                                | -                                                |
| Hazards not otherwise classified (HNOC): | May form combustible dust concentrations in air. |

### 2.3. OTHER HAZARDS

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. SUBSTANCES

Not applicable. This product is a mixture.

### 3.2. MIXTURES

Does not contain any substances required to report

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### OTHER INFORMATION

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## SECTION 4: FIRST-AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

|                      |                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General information: | If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).<br>Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.                                                 |
| Inhalation:          | Upon breathing difficulties or irritation of the respiratory tract:<br>Bring the person into fresh air and stay with him/her.                                                                                                                                                                                                      |
| Skin contact:        | Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.                                                                                                                                                        |
| Eye contact:         | If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.                                                                                                                                                        |
| Ingestion:           | If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.<br>In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward |

with head down to avoid inhalation of or choking on vomited material.

Burns: Not applicable.

#### **4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

High amounts of dust can cause coughing and general irritation of the respiratory airways.

#### **4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

Treat symptomatically.

#### **INFORMATION TO MEDICS**

Bring this safety data sheet or the label from this product.

### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **5.1. EXTINGUISHING MEDIA**

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### **5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

#### **5.3. ADVICE FOR FIREFIGHTERS**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice. Fire fighters should wear appropriate personal protective equipment.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Contaminated areas may be slippery.

#### **6.2. ENVIRONMENTAL PRECAUTIONS**

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

#### **6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

Collect spills carefully. Moist the material with water in order to prevent the formation and propagation of dust.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### **6.4. REFERENCE TO OTHER SECTIONS**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### **SECTION 7: HANDLING AND STORAGE**

**7.1. PRECAUTIONS FOR SAFE HANDLING**

May form combustible dust concentrations in air.

Take action to prevent static discharges.

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

**7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Avoid the suspension of dust in the air.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Use non-sparking tools.

Recommended storage material: Keep only in original packaging.

Storage conditions: 10 - 30°C

Incompatible materials: Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**7.3. SPECIFIC END USE(S)**

This product should only be used for applications quoted in section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. CONTROL PARAMETERS**

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

**8.2. EXPOSURE CONTROLS**

Apply general control to prevent unnecessary exposure

General recommendations: When transferring the materials, dust clouds should be kept at an absolute minimum. Handling should be slow and deliberate. The materials should be transferred from one container to another using a non-sparking, conductive metal scoop.  
When mixing the material with other dry ingredients, frictional heat should be avoided. The best type of mixer for a dry mixing operation is one that contains no moving parts, but rather affects a tumbling action, such as a conical blender. Introduction of an inert atmosphere in the blender is highly recommended since dust clouds are generated. All equipment must be well grounded. Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures: Airborne gas and dust concentrations must be kept at a minimum. Provide efficient mechanical ventilation. If not possible use suitable respiratory equipment.

It is recommended that all dust control equipment such as local exhaust ventilation contain an explosion suppression system.

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special

Measures to avoid environmental exposure: attention to hands, forearms and face.  
No specific requirements.

## INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

Generally: Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment:

| Work situation                    | Type | Class | Colour | Standards |                                                                                     |
|-----------------------------------|------|-------|--------|-----------|-------------------------------------------------------------------------------------|
| In case of inadequate ventilation | S/SL | P2    | White  | EN149     |  |

Skin protection:

| Recommended                             | Type/Category | Standards |                                                                                     |
|-----------------------------------------|---------------|-----------|-------------------------------------------------------------------------------------|
| Dedicated work clothing should be worn. | -             | -         |  |

Hand protection:

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards               |                                                                                      |
|----------|----------------------|--------------------------|-------------------------|--------------------------------------------------------------------------------------|
| Nitrile  | 0,38                 | > 480                    | EN374-2, EN374-3, EN388 |  |

Eye protection:

| Type           | Standards |                                                                                       |
|----------------|-----------|---------------------------------------------------------------------------------------|
| Safety glasses | EN166     |  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Powder  
Color: Brown  
Odor: None  
Odor threshold (ppm): No data available  
pH: No data available  
Density (g/cm<sup>3</sup>): No relevant or available data due to the nature of the product.  
Kinematic viscosity: No data available  
Particle characteristics: Particle size: 5-12 µm

### PHASE CHANGES

Melting point/freezing point (°F): No data available  
Softening point/range (°F): Does not apply to solids.

|                                     |                   |
|-------------------------------------|-------------------|
| Boiling point (°F):                 | No data available |
| Vapor pressure:                     | No data available |
| Relative vapor density:             | No data available |
| Decomposition temperature - (°F):   |                   |
| Decomposition temperature >80 (°C): |                   |

#### DATA ON FIRE AND EXPLOSION HAZARDS

|                                 |                   |
|---------------------------------|-------------------|
| Flash point (°F):               | No data available |
| Flammability (°F):              | No data available |
| Auto-ignition temperature (°F): | No data available |
| Explosion limits (% v/v):       | No data available |

#### SOLUBILITY

|                                       |                       |
|---------------------------------------|-----------------------|
| Solubility in water:                  | Practically insoluble |
| n-octanol/water coefficient (LogKow): | No data available     |
| Solubility in fat (g/L):              | No data available     |

#### 9.2. OTHER INFORMATION

|                                            |                    |
|--------------------------------------------|--------------------|
| Formation of explosible dust/air mixtures: | Yes                |
| Evaporation rate (n-butylacetate = 100):   | No data available  |
| Other physical and chemical parameters:    | No data available. |
| Oxidizing properties:                      | No data available  |

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. REACTIVITY

No data available.

#### 10.2. CHEMICAL STABILITY

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS, INCLUDING THOSE ASSOCIATED WITH FORESEEABLE EMERGENCIES

None known.

#### 10.4. CONDITIONS TO AVOID

Avoid the suspension of dust in the air.

#### 10.5. INCOMPATIBLE MATERIALS

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Under normal conditions of storage and use, hazardous decomposition products should not be produced

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

#### ACUTE TOXICITY

|                    |                                                                                |
|--------------------|--------------------------------------------------------------------------------|
| Product/substance  | 2-hydroxynaphthalene-1-carbaldehyde [(2-hydroxy-1-naphthyl)methylene]hydrazone |
| Species:           | Rat                                                                            |
| Route of exposure: | Oral                                                                           |
| Test:              | LD50                                                                           |
| Result:            | >4600 mg/kg                                                                    |

#### SKIN CORROSION/IRRITATION

Based on available data, the classification criteria are not met.

#### SERIOUS EYE DAMAGE/IRRITATION

Based on available data, the classification criteria are not met.

#### RESPIRATORY SENSITISATION

Based on available data, the classification criteria are not met.

#### SKIN SENSITISATION

Based on available data, the classification criteria are not met.

#### GERM CELL MUTAGENICITY

Based on available data, the classification criteria are not met.

#### CARCINOGENICITY

Based on available data, the classification criteria are not met.

#### REPRODUCTIVE TOXICITY

Based on available data, the classification criteria are not met.

#### STOT-SINGLE EXPOSURE

Based on available data, the classification criteria are not met.

#### STOT-REPEATED EXPOSURE

Based on available data, the classification criteria are not met.

#### ASPIRATION HAZARD

Based on available data, the classification criteria are not met.

#### LONG TERM EFFECTS

None known.

#### OTHER INFORMATION

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. TOXICITY

|                   |                                                                                |
|-------------------|--------------------------------------------------------------------------------|
| Product/substance | 2-hydroxynaphthalene-1-carbaldehyde [(2-hydroxy-1-naphthyl)methylene]hydrazone |
| Test method:      | OECD 202                                                                       |
| Species:          | Daphnia, Daphnia magna                                                         |
| Duration:         | 48 hours                                                                       |
| Test:             | EC50                                                                           |
| Result:           | >100 mg/L                                                                      |

|                   |                                                                                |
|-------------------|--------------------------------------------------------------------------------|
| Product/substance | 2-hydroxynaphthalene-1-carbaldehyde [(2-hydroxy-1-naphthyl)methylene]hydrazone |
| Species:          | Algae                                                                          |
| Duration:         | 48 hours                                                                       |
| Test:             | EC50                                                                           |
| Result:           | 2.744 mg/L                                                                     |

|                   |                                                                                |
|-------------------|--------------------------------------------------------------------------------|
| Product/substance | 2-hydroxynaphthalene-1-carbaldehyde [(2-hydroxy-1-naphthyl)methylene]hydrazone |
| Test method:      | OECD 209                                                                       |
| Compartment:      | Activated Sludge Plant                                                         |
| Duration:         | 3 hours                                                                        |
| Test:             | EC20                                                                           |
| Result:           | >1000 mg/L                                                                     |

## 12.2. PERSISTENCE AND DEGRADABILITY

Based on available data, the classification criteria are not met.

## 12.3. BIOACCUMULATIVE POTENTIAL

Based on available data, the classification criteria are not met.

## 12.4. MOBILITY IN SOIL

No data available.

## 12.5. RESULTS OF PBT AND VPVB ASSESSMENT

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

## 12.6. OTHER ADVERSE EFFECTS

None known.

# SECTION 13: DISPOSAL CONSIDERATIONS

## RCRA HAZARDOUS WASTE ("P" AND "U" LIST) (40 CFR 261)

None of the components are listed

## SPECIFIC LABELLING

## CONTAMINATED PACKING

Packaging containing residues of the product must be disposed of similarly to the product.

# SECTION 14: TRANSPORT INFORMATION

| 14.1<br>UN / ID |   | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es)                            | 14.4<br>PG* | 14.5<br>Env** | Other<br>informat<br>ion:             |
|-----------------|---|---------------------------------|-----------------------------------------------------|-------------|---------------|---------------------------------------|
| DOT             | - | -                               | Transport hazard class: Not regulated for transport | -           | No            | See below for additional information. |
| IMDG            | - | -                               | Transport hazard class: Not regulated for transport | -           | No            | See below for                         |

| 14.1<br>UN / ID |   | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es)                            | 14.4<br>PG* | 14.5<br>Env** | Other<br>informat<br>ion:                        |
|-----------------|---|---------------------------------|-----------------------------------------------------|-------------|---------------|--------------------------------------------------|
|                 |   |                                 |                                                     |             |               | additiona<br>l<br>informati<br>on.               |
| IATA            | - | -                               | Transport hazard class: Not regulated for transport | -           | No            | See below for additiona<br>l<br>informati<br>on. |

\* Packing group

\*\* Environmental hazards

#### ADDITIONAL INFORMATION

DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

#### 14.6. SPECIAL PRECAUTIONS FOR USER

Not applicable.

#### 14.7. TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

No data available.

### SECTION 15: REGULATORY INFORMATION

#### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

#### 15.2. U.S. FEDERAL REGULATIONS

TSCA (the non-confidential portion): 2-hydroxynaphthalene-1-carbaldehyde [(2-hydroxy-1-naphthyl)methylene]hydrazone is listed

Clean Air Act: None of the components are listed

EPCRA Section 302: None of the components are listed

EPCRA Section 304: None of the components are listed

EPCRA section 313: None of the components are listed

CERCLA: None of the components are listed

Hazardous chemical inventory reporting: This product is subject to Tier II reporting.

#### STATE REGULATIONS

California / Prop. 65: See product label for Prop 65 Statement (if applicable)

Massachusetts / Right To None of the components are listed

Know Act:

New Jersey / Right To Know Act: None of the components are listed

New York / Right To Know Act: None of the components are listed

Pennsylvania / Right To Know Act: None of the components are listed

## **NFPA**

Health hazard: 0

Fire hazard: 3

Instability hazard: 0

## **15.4. RESTRICTIONS FOR APPLICATION**

Restricted to professional users.

## **15.5. DEMANDS FOR SPECIFIC EDUCATION**

No specific requirements.

## **15.6. ADDITIONAL INFORMATION**

Not applicable.

## **15.7. CHEMICAL SAFETY ASSESSMENT**

No

## **15.8. SOURCES**

OSHA Hazard Communication Standard (29 CFR 1910.1200)

## **SECTION 16: OTHER INFORMATION**

### **FULL TEXT OF H-PHRASES AS MENTIONED IN SECTION 3**

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

### **THE FULL TEXT OF IDENTIFIED USES AS MENTIONED IN SECTION 1**

None known.

### **ABBREVIATIONS AND ACRONYMS**

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NFPA = National Fire Protection Association  
NIOSH = National Institute for Occupational Safety and Health  
OECD = Organisation for Economic Co-operation and Development  
OSHA = Occupational Safety and Health Administration  
PBT = Persistent, Bioaccumulative and Toxic  
RCRA = Resource Conservation and Recovery Act  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SARA = Superfund Amendments and Reauthorization Act  
SCL = A specific concentration limit.  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TSCA = The Toxic Substances Control Act  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

**ADDITIONAL INFORMATION**

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

**THE SAFETY DATA SHEET IS VALIDATED BY**

Magnaflux

**OTHER**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en