

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 2/28/2024 Version: 1.0

### **SECTION 1: Identification**

## 1.1. Identification

Product form : Substance
Trade name : N-Catalyst
CAS-No. : 1344-28-1

Product code : AR049, AR049K, AR2188

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemicals

1.3. Supplier

Alpha Resources LLC 3090 Johnson Rd.

Stevensville, Michigan 49127

USA

T (269)465-5559

 $\underline{info@alpharesources.com} - \underline{www.alpharesources.com}$ 

### 1.4. Emergency telephone number

Emergency number : CHEMTREC Emergency Phone Number: (800) 424-9300

### **SECTION 2: Hazard(s) identification**

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Not classified

### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

No labeling applicable

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Name : ALUMINA GRANULES AND PELLETS

CAS-No. : 1344-28-1

| Name            | Product identifier | %   | GHS US classification |
|-----------------|--------------------|-----|-----------------------|
| ALUMINIUM OXIDE | CAS-No.: 1344-28-1 | 100 | Not classified        |

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

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

## 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Complete protective clothing.

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

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

#### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### N-Catalyst (1344-28-1)

No additional information available

#### **ALUMINIUM OXIDE (1344-28-1)**

### **USA - OSHA - Occupational Exposure Limits**

| COLL COLLIN COCCUPATION LAPOSUI CENTRALS |  |
|--|--|
| Local name                               | alpha-Alumina  |
| OSHA PEL TWA [1]                         | 15 mg/m³ (Total dust)<br>5 mg/m³ (Respirable fraction) |

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### **ALUMINIUM OXIDE (1344-28-1)**

Regulatory reference (US-OSHA) OSHA Annotated Table Z-1

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):







## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state: SolidAppearance: granules.Color: whiteOdor: odorless

Odor threshold : No data available

pН : 9.4-10.1 Melting point : 2040 Freezing point : Not applicable 2980 °C Boiling point Flash point Not applicable Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Non flammable. No data available Vapor pressure Relative vapor density at 20°C : 1hPa at 2158 deg

Relative density : 4g/cm3

Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available. No data available Decomposition temperature Viscosity, kinematic Not applicable Viscosity, dynamic No data available **Explosion limits** Not applicable Explosive properties No data available Oxidizing properties No data available

#### 9.2. Other information

No additional information available

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### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 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 (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| ALUMINIUM OXIDE (1344-28-1)       |                            |  |
|-----------------------------------|----------------------------|--|
| LD50 oral rat                     | > 10000 mg/kg Source: ECHA |  |
| LC50 Inhalation - Rat (Dust/Mist) | > 2.3 mg/l Source: ECHA    |  |
| ATE US (oral)                     | 10000 mg/kg body weight    |  |

Skin corrosion/irritation : Not classified pH: 9.4-10.1

Serious eye damage/irritation : Not classified pH: 9.4-10.1

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

### **ALUMINIUM OXIDE (1344-28-1)**

NOAEL (animal/male, F0/P)

1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure : Not classified STOT-repeated exposure : Not classified

# ALUMINIUM OXIDE (1344-28-1)

LOAEC (inhalation, rat, dust/mist/fume, 90 days)

0.015 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)

Aspiration hazard : Not classified Viscosity, kinematic : Not applicable

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

## 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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| ALUMINIUM OXIDE (1344-28-1) |   |
|-----------------------------|---|
| LC50 - Fish [1]             | 0.078 – 0.108 mg/l Source: ECHA   |
| EC50 72h - Algae [1]        | 1.05 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2]        | 0.2 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)  |
| EC50 96h - Algae [1]        | > 0.024 mg/l Source: ECHA   |

#### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

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

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

TDG

Transport hazard class(es) (TDG) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

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#### 14.5. Environmental hazards

Other information

: No supplementary information available.

### 14.6. Special precautions for user

#### DOT

No data available

### TDG

No data available

#### IMDG

No data available

#### **IATA**

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name            | CAS-No.   | Listing | Commercial status | Flags |
|-----------------|-----------|---------|-------------------|-------|
| ALUMINIUM OXIDE | 1344-28-1 | Present | Active            |       |

#### **ALUMINIUM OXIDE (1344-28-1)**

Subject to reporting requirements of United States SARA Section 313

### 15.2. International regulations

### CANADA

### **ALUMINIUM OXIDE (1344-28-1)**

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

**National regulations** 

### **ALUMINIUM OXIDE (1344-28-1)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

No additional information available

#### **SECTION 16: Other information**

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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.