

# SAFETY DATA SHEET

Version: v1

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

|                |                                           |
|----------------|-------------------------------------------|
| Product name   | : 7,7,8,8-Tetracyanoquinodimethane (TCNQ) |
| Product Number | : T106844                                 |
| Brand          | : aladdin                                 |
| CAS-No.        | : 1518-16-7                               |

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Identified uses | : Laboratory chemicals, Manufacture of substances. |
|-----------------|----------------------------------------------------|

### 1.3 Company

|           |                                                   |
|-----------|---------------------------------------------------|
| Company   | : ALADDIN SCIENTIFIC CORPORATION                  |
| Address   | : 14078 Meridian Parkway,<br>Riverside, CA. 92518 |
| Telephone | : +1 (833) 552-7181                               |
| Fax       | : no data available                               |

### 1.4 Emergency telephone number

|                            |                  |
|----------------------------|------------------|
| CHEMTREC®, Inside the USA  | : 1-800-424-9300 |
| CHEMTREC®, Outside the USA | :                |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

|      |                              |
|------|------------------------------|
| H301 | Toxic if swallowed           |
| H302 | Harmful if swallowed         |
| H311 | Toxic in contact with skin   |
| H312 | Harmful in contact with skin |
| H331 | Toxic if inhaled             |
| H332 | Harmful if inhaled           |

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H301+H311+H331

Toxic if swallowed, in contact with skin or if inhaled

Precautionary statement(s)

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : 7,7,8, 8-tetracyano-p-phenyldiquinone dimethane ; 2,2'-(2, 5-cyclohexadiene-1, 4-diyl) malonitrile ; 7,7,8,8-Tetracyanoquinodimethane; 1,4-Bis(dicyanomethylene)cyclohexadiene ; TCNQ

Formula : C<sub>12</sub>H<sub>4</sub>N<sub>4</sub>

Molecular weight : 204.19

CAS No. : 1518-16-7

EC-NO. : 216-174-8

| Component                               | Classification    | Concentration |
|-----------------------------------------|-------------------|---------------|
| 7,7,8,8-Tetracyanoquinodimethane (TCNQ) | no data available | ≥98%          |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Move out of dangerous area.Consult a physician.Show this safety data sheet to the doctor in attendance.

#### If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water.Take victim immediately to hospital.Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

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

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

The most important known symptoms and effects are described in the labels (see Chapter 2.2) and/or Chapter 11

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

no data available

## SECTION 5: Firefighting measures

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## 5.1 Extinguishing media

### Suitable extinguishing media

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

### Unsuitable extinguishing media

no data available

## 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx)

## 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

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

Wear respiratory protection.Avoid dust formation.Avoid breathing vapours, mist or gas.Ensure adequate ventilation.

<br/>Evacuate personnel to safe areas.Avoid breathing dust.<br/>

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.

### 6.3 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

<br/>disposal.<br/>

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.Avoid formation of dust and aerosols.<br/><br/>Aldrich - 157635 Page 3 of 7

<br/>Provide appropriate exhaust ventilation at places where dust is formed.<br/>

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

Keep container tightly closed in a dry and well-ventilated place.<br/>

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.  
 <br/>

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate  
 <br/>government standards such as NIOSH (US) or EN 166(EU).<br/>

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching  
 <br/>glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in  
 <br/>accordance with applicable laws and good laboratory practices. Wash and dry hands. <br/>Full contact  
 <br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Break through time: 480 min  
 <br/>Material tested: Dermatrill? (KCL 740 / Aldrich Z677272, Size M) <br/>Splash contact <br/>Material:  
 Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Break through time: 480 min <br/>Material  
 tested: Dermatrill? (KCL 740 / Aldrich Z677272, Size M) <br/>data source: KCL GmbH, D-36124 Eichenzell,  
 phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 <br/>If used in solution, or mixed with other  
 substances, and under conditions which differ from EN 374, contact the <br/>supplier of the CE approved  
 gloves. This recommendation is advisory only and must be evaluated by an industrial <br/>hygienist and safety  
 officer familiar with the specific situation of anticipated use by our customers. It should not be <br/>construed as  
 offering an approval for any specific use scenario. <br/>

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the  
 <br/>concentration and amount of the dangerous substance at the specific workplace. <br/>

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type  
 N99 <br/>(US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is  
 the sole <br/>means of protection, use a full-face supplied air respirator. Use respirators and components tested  
 and approved <br/>under appropriate government standards such as NIOSH (US) or CEN (EU). <br/>

##### Control of environmental exposure

no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                 |                   |
|---------------------------------|-------------------|
| a) Appearance                   | no data available |
| b) Odour                        | no data available |
| c) Odour Threshold              | no data available |
| d) pH                           | no data available |
| e) Melting point/freezing point | 287-289°C         |

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|                                                 |                   |
|-------------------------------------------------|-------------------|
| f) Initial boiling point and boiling range      | no data available |
| g) Flash point                                  | no data available |
| h) Evaporation rate                             | no data available |
| i) Flammability (solid, gas)                    | no data available |
| j) Upper/lower flammability or explosive limits | no data available |
| k) Vapour pressure                              | no data available |
| l) Vapour density                               | no data available |
| m) Relative density                             | no data available |
| n) Water solubility                             | no data available |
| o) Partition coefficient: n-octanol/water       | no data available |
| p) Auto-ignition temperature                    | no data available |
| q) Decomposition temperature                    | no data available |
| r) Viscosity                                    | no data available |
| s) Explosive properties N                       | no data available |
| t) Oxidizing properties N                       | no data available |

## 9.2 Other safety information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

Strong acids, Strong bases, Strong reducing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx)

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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**Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

no data available

## SECTION 12: Ecological information

### 12.1 Toxicity

no data available

### 12.2 Persistence and degradability

no data available <br/>

### 12.3 Bioaccumulative potential

no data available <br/>

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available <br/><br/>

### 12.6 Other adverse effects

no data available

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## SECTION 13:

### 13.1 Disposal considerations

**Product**

no data available

**Contaminated packaging**

no data available

## SECTION 14: Transport information

**DOT (US)**

UN number: 3439

Packing group: I

Class: 6.1

Proper shipping name: NITRILES,  
TOXIC, SOLID, N.O.S. (2,2'-(2,5-

Reportable Quantity(RQ): no data  
available

Poison Inhalation Hazard: No

Cyclohexadiene-1,4-

diylidene)bismalononitrile)

Environmental Hazards: no data available

**IMDG**

UN number: 3439

Packing group: I

EMS-No: No

Proper shipping name: NITRILES, TOXIC, SOLID, N.O.S. (2,2'-(2,5-Cyclohexadiene-1,4-diylidene)bismalononitrile)

**IATA**

UN number: 3439

Packing group: I

Class: 6.1

Proper shipping name: NITRILES, TOXIC, SOLID, N.O.S. (2,2'-(2,5-Cyclohexadiene-1,4-diylidene)bismalononitrile)

## SECTION 15: Regulatory information

no data available

## SECTION 16: Other information

**Prepared By**

Regulatory Affairs

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