

# Safety Data Sheet Nuclear Fast Red K098 (OSHA)

## **SECTION 1: Identification**

#### 1.1 GHS Product identifier

Product name Nuclear Fast Red K098 (OSHA)

Product number K098

Brand Nuclear Fast Red K098

#### 1.3 Recommended use of the chemical and restrictions on use

In Vitro Diagnostic Use

#### 1.4 Supplier's details

Name Diagnostic Biosystems Address 6616 Owens Drive

Pleasanton CA 94588

USA

Telephone (888) 896-3350

email customersupport@dbiosys.com

#### 1.5 Emergency phone number

(925) 484-3350 (9AM-6PM, Monday - Friday, Pacific Standard Time)

## **SECTION 2: Hazard identification**

#### **General hazard statement**

For Professional Users Only

## 2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Acute toxicity, inhalation (chapter 3.1), Cat. 5
- Acute toxicity, oral (chapter 3.1), Cat. 5

## 2.2 GHS label elements, including precautionary statements

#### **Pictogram**



1. Skull and crossbones

Signal word Warning

**Hazard statement(s)** 

H310 Fatal in contact with skin

Precautionary statement(s)

P262 Do not get in eyes, on skin, or on clothing. P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.
P310 Immediately call a POISON CENTER/doctor.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container to a licensed disposal company.

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

## 3.2 Mixtures

#### **Hazardous components**

1. Aluminum sulfate

Concentration < 5 % (weight)

Other names / synonyms Aluminii sulfas; Aluminium sulfate; Aluminium sulphate; Sulfuric acid,

aluminum salt (3:2)

CAS no. 10043-01-3

2. Acetic acid

Concentration < 2 % (volume)

Other names / synonyms acetic acid; ACETIC ACID; ACETIC ACID, GLACIAL; ACETICACID; Acidum

aceticum; ETHANOIC ACID; ETHYLIC ACID; GLACIAL ACETIC ACID; METHANECARBOXYLIC ACID; UN 2789; UN 2790; VINEGAR ACID

EC no. 200-580-7 CAS no. 64-19-7 Index no. 607-002-00-6

- Flammable liquids (C.4.19), Cat. 3

- Skin corrosion/irritation (C.4.4), Cat. 1A

H226 Flammable liquid and vapor

H314 Causes severe skin burns and eye damage

SCLs/M-factors/ATEs Skin Corr. 1A; H314: C ≥ 90 %

Skin Corr. 1B; H314: 25 %  $\leq$  C < 90 % Skin Irrit. 2; H315: 10 %  $\leq$  C < 25 %

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Eye Irrit. 2; H319: 10 % ≤ C < 25 %

3. Nuclear Fast Red

Concentration < 1 % (weight)

Other names / synonyms 2-Anthracenesulfonic acid, 4-amino-9,10-dihydro-1,3-dihydroxy-9,10-dioxo-,

monosodium salt;

CAS no. 6409-77-4

## Trade secret statement (OSHA 1910.1200(i))

\*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

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

## 4.1 Description of necessary first-aid measures

General advice 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.

Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Consult a physician.

In case of skin contact Rinse with plenty of water. Get medical attention if irritation develops and

persists.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes. Get medical

attention if symptoms occur.

If swallowed Call a poison center or doctor if you feel unwell. If vomiting occurs naturally,

have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything

by mouth to an unconscious person.

Acute and delayed symptoms and effects: May cause gastrointestinal

irritation. Signs/symptoms may include abdominal pain, stomach upset,

nausea, vomiting and diarrhea.

Personal protective equipment for first-aid responders

Ensure adequate ventilation. Use personal protective equipment. For

personal protection see section 8.

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

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

## 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

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

#### 5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

### 5.2 Specific hazards arising from the chemical

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SODIUM AZIDE: Sodium oxides

#### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

#### 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

#### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

#### Reference to other sections

For disposal see section 13.

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

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place.

#### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

CAS: 26628-22-8 (EC: 247-852-1)

Sodium azide

ACGIH: 0.29 mg/m3 (C); 0.1 ppm (C) hydrazoic acid vapor TLV® inhalation; NIOSH: 0.29 mg/m3 (C); 0.1 ppm (C) hydrazoic acid vapor REL-C inhalation

## CAS: 64-19-7 (EC: 200-580-7)

Acetic acid

ACGIH (USA): 15 ppm STEL inhalation; 10 ppm, (ST) 15 ppm TLV® inhalation; 10 ppm TWA inhalation; Cal/OSHA (USA): 40 ppm C inhalation; 10 ppm, (ST) 15 ppm, (C) 40 ppm PEL inhalation; 10 ppm, 25 mg/m3 PEL inhalation; 15 ppm, 37 mg/m3 STEL inhalation; NIOSH (USA): 10 ppm, (ST) 15 ppm REL inhalation; 15 ppm, 37 mg/m3 ST inhalation; 10 ppm, 25 mg/m3 TWA inhalation; OSHA (USA): 25 mg/m3 PEL inhalation; 10 ppm PEL inhalation; 10 ppm, 25 mg/m3 TWA inhalation

## 8.2 Appropriate engineering controls

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

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### **Pictograms**







### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin 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**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., 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 not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Thermal hazards

No data available

## Control banding approach

No data available.

#### **Environmental exposure controls**

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

## SECTION 9: Physical and chemical properties and safety characteristics

Physical state Liquid
Appearance Opaque
Color Red
Odor Odorless

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Odor threshold No data available.

pH 3.2

Melting point/freezing point No data available. Boiling point or initial boiling point and boiling range No data available. Flash point No data available. Evaporation rate No data available. Flammability No data available. Lower and upper explosion limit/flammability limit No data available. Vapor pressure No data available. Relative vapor density No data available. Density and/or relative density No data available. Solubility No data available. Partition coefficient n-octanol/water (log value) No data available. Auto-ignition temperature No data available. Decomposition temperature No data available. Kinematic viscosity No data available. Explosive properties No data available.

#### Particle characteristics

No data available.

Oxidizing properties

## Supplemental information regarding physical hazard classes

No data available.

## Further safety characteristics (supplemental)

No data available.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None under normal use conditions.

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

None under normal use conditions.

#### 10.4 Conditions to avoid

Exposure to moisture.

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

#### 10.5 Incompatible materials

Strong oxidizing agents

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Acetic acid: Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols, Nitric acid

#### 10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

No data available.

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Acetic acid: Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

## **SECTION 11: Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

The ATE (dermal) of the mixture is: 5000 mg/kg bw

The ATE (gas inhalation) of the mixture is: 100000 ppmV

The ATE (oral) of the mixture is: 5000 mg/kg bw

Acetic acid

LD50 Oral - Rat - 3,310 mg/kg

Acetic acid

LC50 Inhalation - Mouse - 5620 ppm - 1 h

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Conjunctive irritation. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other. Blood: Other changes.

Acetic acid

LC50 Inhalation - Rat - 11.4 mg/l - 4 h

Acetic acid

LD50 Skin - Rat - 1,112 mg/kg

### Skin corrosion/irritation

Irritating to skin.

## Serious eye damage/irritation

Causes eye irritation.

#### Respiratory or skin sensitization

Based on available data, classification data are not met

#### Germ cell mutagenicity

Based on available data, classification data are not met

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

Based on available data, classification data are not met

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### STOT-single exposure

No data available

## STOT-repeated exposure

Based on available data, classification data are not met

### **Aspiration hazard**

Based on available data, classification data are not met

## **SECTION 12: Ecological information**

#### **Toxicity**

Acetic acid

LC50 - Oncorhynchus mykiss (rainbow trout) - >1,000 mg/l - 96 h

Citation: (OECD Test Guideline 203)

Acetic acid

EC50 - Daphnia magna (water flea) - >300.82 mg/l - 48 h

Citation: (OECD Test Guideline 202)

#### Persistence and degradability

No data available on product

#### Bioaccumulative potential

No data available on product

## Mobility in soil

No data available

#### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### **Endocrine disrupting properties**

No data available.

#### Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## **Disposal methods**

### **Product disposal**

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Packaging disposal

Dispose of as unused product.

### **Waste treatment**

No data available

#### Sewage disposal

Do not let product enter drains

#### Other disposal recommendations

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Dispose of contents/ container in accordance with the local/regional/national/international regulations.

# **SECTION 14: Transport information**

DOT (US)

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

# **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations specific for the product in question

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **Canadian Domestic Substances List (DSL)**

Chemical name: Sodium azide (Na(N3))

CAS: 26628-22-8

Chemical name: Sulfuric acid, aluminum salt (3:2)

CAS: 10043-01-3

Chemical name: Acetic acid

CAS: 64-19-7

Chemical name: 2-Anthracenesulfonic acid, 4-amino-9,10-dihydro-1,3-dihydroxy-9,10-dioxo-, monosodium salt

CAS: 6409-77-4

## **Massachusetts Right To Know Components**

Chemical name: Sodium azide (Na(N3))

CAS number: 26628-22-8

Chemical name: Aluminum sulfate

CAS number: 10043-01-3

Acetic acid

CAS number: 64-19-7

#### **New Jersey Right To Know Components**

Common name: SODIUM AZIDE

CAS number: 26628-22-8

Common name: ALUMINUM SULFATE

CAS number: 10043-01-3

Acetic acid

CAS number: 64-19-7

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### Pennsylvania Right To Know Components

Chemical name: Sodium azide CAS number: 26628-22-8

Chemical name: Sulfuric acid, aluminum salt (3:2)

CAS number: 10043-01-3

Acetic acid

CAS number: 64-19-7

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 311/312 Hazards

Acute Health Hazard

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

## **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **Seveso Directive**

Yes. H2 -acute toxic. E1

#### 15.2 Chemical Safety Assessment

The supplier of this product has not conducted any Chemical Safety Assessment

# **HMIS Rating**



#### **NFPA Rating**



## **SECTION 16: Other information**

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#### 16.1 Further information/disclaimer

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