

Safety Data Sheet (SDS) According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

**Issuing Date:** 2018-04-09 **Revision Date:** 2025-07-30 **Version:** 2

# **SECTION 1. Identification**

Product identifier

Product No 9944
Product name AICAR

## Recommended use of the chemical and restrictions on use

**Identified uses** For Research Use Only. Not for Use in Diagnostic Procedures.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

3 Trask Lane Danvers, MA 01923

United States TEL: +1 978 867 2300

FAX: +1 978 867 2400 www.cellsignal.com

Email address support@cellsignal.com

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

# SECTION 2. Hazard(s) identification

## Classification

Website

This substance/mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity - single exposure (STOT SE)	Category 3

# GHS Label elements, including precautionary statements



Signal Word Warning

Hazard statement(s)
Causes skin irritation

Causes serious eye irritation May cause respiratory irritation

#### **Precautionary Statement(s)**

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

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

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container to an approved waste disposal plant.

#### **Supplementary Hazard Information**

## Hazards not otherwise classified (HNOC)

Not applicable.

Unknown Acute Toxicity 100% of the mixture consists of ingredient(s) of unknown acute toxicity

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

# Molecular Weight 258.23

Chemical name	CAS No.	Weight-%
5-Amino-1-beta-D-ribofuranosyl-1H-imidazole-4-car	2627-69-2	100
boxamide		

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

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. If symptoms persist, call a physician.

**Skin contact** Wash off immediately with plenty of water. Remove and wash contaminated clothing before

re-use. If skin irritation persists, call a physician.

**Inhalation** Move to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** Clean mouth with water and afterwards drink plenty of water.

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

No information available.

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

Treat symptomatically.

# Advice for emergency responders

General advice For further assistance, contact your local Poison Control Center.

Protection of first-aiders Ensure that medical personnel are aware of the material(s) involved, and take precautions

to protect themselves

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

## **Extinguishing media**

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.

#### Specific hazards arising from the chemical

No information available.

## **Explosion Data**

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# **SECTION 6. Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Other information Ensure adequate ventilation. No information available.

### **Environmental precautions**

See Section 12 for additional information.

## Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Clean contaminated surface thoroughly.

# **SECTION 7. Handling and storage**

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

**Technical measures/Storage** 

conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Packaging material No information available

Incompatible products Acids, Bases

# **SECTION 8. Exposure controls/personal protection**

## Control Parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

# Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

#### Individual protection measures, such as personal protective equipment

Safety glasses with side-shields Eye/face protection Skin and body protection Wear protective gloves/clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

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

#### Information on basic physical and chemical properties

Physical state Solid Powder **Appearance** Color White

No information available Odor **Odor Threshold** No information available

**Property** Remarks • Method Values

рΗ No information available

Melting point/freezing point 210 - 220°C

Boiling point or initial boiling point No information available

and boiling range

Flash point No information available **Evaporation rate** No information available No information available **Flammability** No information available Lower explosion limit No information available **Upper explosion limit** Vapor pressure No information available Relative vapor density No information available No information available Specific gravity Solubility No information available. Solubility in other solvents No information available. Partition coefficient: n-octanol/water No information available **Autoignition temperature** No information available Hyphen No information available No information available **Viscosity** Viscosity, dynamic No information available

Other information

Softening point No information available

Molecular Weight 258.23

No information available **VOC** content **Liquid Density** No information available **Bulk density** No information available

# **SECTION 10. Stability and reactivity**

# Reactivity

No information available.

#### **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

Hazardous reactions
Hazardous polymerization
None under normal processing.
None under normal processing.

#### **Conditions to Avoid**

Exposure to light. Heat.

#### Incompatible materials

Acids, Bases

## **Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapors, Carbon oxides (COx), Nitrogen oxides (NOx)

# **SECTION 11. Toxicological information**

### Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** May cause irritation.

**Skin contact** May cause irritation. May be absorbed through the skin in harmful amounts.

**Ingestion** May be harmful if swallowed.

## Symptoms related to the physical, chemical and toxicological characteristics

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxicological and physiological properties of this compound is not well defined.

**Unknown Acute Toxicity** 100% of the mixture consists of ingredient(s) of unknown acute toxicity.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Symptoms** No information available.

SensitizationNo information available.Mutagenic effectsNo information available.

Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identifiable

as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Neurological effects
Aspiration Hazard
No information available.
No information available.
No information available.
No information available.

## **SECTION 12. Ecological information**

## **Ecotoxicity**

100% of the mixture consists of components of unknown hazards to the aquatic environment.

Persistence and degradability No information available No information available

Bioaccumulation

No information available

#### Other adverse effects

No information available

# **SECTION 13. Disposal considerations**

## Waste Disposal Methods

Dispose of in accordance with all applicable national environmental laws and regulations.

#### **Disposal considerations**

Do not empty into drains; dispose of this material and its container in a safe way. Dispose of wastes in an approved waste disposal facility.

# **SECTION 14. Transport information**

This material is not subject to regulation as a hazardous material for shipping.

# **SECTION 15. Regulatory information**

# North American Inventory Listing

This product contains a chemical or chemicals included in the Toxic Substances Control Act (TSCA) Chemical Substance Inventory, Domestic Substances List (DSL) and/or Non-Domestic Substances List (NDSL):

Chemical name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
5-Amino-1-beta-D-ribofuranosyl-	Listed	Not Listed	Not Listed	Listed
1H-imidazole-4-carboxamide				

### Canadian Workplace Hazardous Materials Information System (WHMIS) Classification

This product does not meet the criteria for classification under the Hazardous Products Act.

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

# Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. FIFRA Label Information

This product does not contain any substances regulated as pesticides.

## US Commerce Department - Export Administration Regulations Information

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).

## U.S. Drug Enforcement Administration Information

This product does not contain any substances regulated under the DEA.

# **SECTION 16. Other information**

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# **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**