

SDS# : 9944

Revision Date 2012-07-27

Version 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AICAR Product Number 9944

Identified Uses For Research Use Only (RUO). Not intended for use in humans or animals.

Not intended for therapeutic or diagnostic procedures.

Manufacturer/Supplier Cell Signaling Technology, Inc.

3 Trask Lane

Danvers, MA 01923 USA

Phone #: 978-867-2300

2. HAZARDS IDENTIFICATION

Emergency Overview



Warning

OSHA Hazards

Target organ effect. Highly toxic by ingestion, Irritant, Teratogen, Mutagen

GHS Classification

Skin Irritation (Category 2) Eye Irritation (Category 2)

Specific target organ toxicity – single exposure (Category 3)

Physical State

Solid powder

Potential Health Effects

Acute Toxicity

Eyes Causes eye irritation.

Skin May be harmful if absorbed through skin. Causes skin irritation. Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be fatal if swallowed.

Target organ effects Nerves, Adrenal cortex, Kidneys, Cardiovascular System, Reproductive system, liver,

gastrointestinal tract, cardiovascular system, stomach.

Chronic Effects

Carcinogenic effects No data available.

Mutagenic effects No data available.

Sensitization No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS



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Hazardous Ingredients

Chemical Name	CAS No.	EC No.	Concentration
AICAR	2627-69-2	220-097-5	>95%
Synonym: 5-Amino-1β-D-ribofuranosyl-			
1H-imidazole-4-carboxamide			

4. FIRST AID MEASURES

Eye Contact Skin Contact Inhalation Ingestion Rinse immediately with plenty of water for at least 15 minutes. Get medical attention. Rinse immediately with soap and plenty of water. Get medical attention immediately.

Move to fresh air. Get medical attention.

Call Poison Control immediately. Never give anything by mouth to an unconscious

person. Rinse mouth with water.

5. FIRE FIGHTING MEASURES

Flash Point Not flammable or combustible.

Suitable Extinguishing Media Special exposure hazards

Use dry chemical , water spray, alcohol resistant foam or carbon dioxide. **H**azardous decomposition products formed under fire conditions –toxic gases

can be evolved.

Special protection for fire fighters Wear self-contained breathing apparatus and protective unit

Other information No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Environmental precautions Avoid contact with skin, eyes, clothing. Avoid creating dusts during clean up. Prevent product form entering drains. Prevent further spillage if safe to do so.

7. HANDLING AND STORAGE

Safe handling advice Ensure adequate ventilation. Handle in accordance with good industrial hygiene

and safety practice.

Storage conditions Incompatibilities Specific end uses Keep container tightly closed in cool dry place.

No data available
No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

This product contains no substances with established exposure limit values.

Engineering Measures

Emergency eyewash and safety shower. Mechanical exhaust required.

Hygiene Measures



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Do not eat, drink or smoke when handling product. Wear suitable gloves and eye/face protection. Wash hands thoroughly after handling product. Regular cleaning of equipment, work area and clothing is recommended. Wash contaminated clothing before reuse.

Personal Protective Equipment

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory protective equipment tested and approved under appropriate government standards such as NIOSH, CEN)

Eve Protection:

Safety glasses tested and approved under appropriate government standards such as NIOSH,

Skin and body protection:

Wear suitable protective clothing, protective shoes or boots.

Hand protection:

Wear compatible chemical resistant gloves. Dispose of gloves in accordance with applicable laws and good laboratory practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State solid powder **Appearance** white to yellowish Odor no data available На no data available Melting point/freezing point no data available Boiling point no data available Evaporation rate no data available Flash point no data available Autoignition temperature no data available Flammability limits in air no data available Explosive properties no data available VOC content no data available Decomposition temperature no data available Solubility no data available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions/Materials to avoid no data available **Hazardous decomposition products** no data available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

Acute Oral Toxicity: No data available.





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Routes of Exposure Potential Health Effects

Acute Toxicity

Eyes May cause eye irritation with susceptible persons.

Skin May cause skin irritation and/or dermatitis.

Inhalation No information available. Ingestion Harmful if swallowed.

Target organ effects No information available

Chronic Effects

Carcinogenic effects 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, or OSHA.

Mutagenic effects
Reproductive toxicity
Sensitization
No information available
No information available

Additional Information: RTECS: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity No data available

Persistence and degradability No data available

Bioaccumulation No data available

Mobility No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with all applicable environmental laws and

regulations.

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

OSHA Hazards

Irritant

GHS Classification

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Specific target organ toxicity – single exposure (Category 3)

Signal Word: Warning



Pictogram:

Hazard Statements

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary Statements

P261 Avoid breathing dust/fume/mist/vapors/spray P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P305 + P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a Poison Center or doctor/physician if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention
P337 + P313 If eye irritation persists: Get medical advice/attention
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

U.S. Federal Regulations

SARA 302

No chemicals in this material are subject to reporting requirements established by SARA Title III, Section 302:

SARA 311/312

Acute Health Hazard

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals that exceed the reporting levels of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.



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U.S. State Regulations

Massachusetts Right-to-Know Components: None

New Jersey Right-to-Know Components:

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Pennsylvania Right-to-Know Components:

5-Amino-1β-D-ribofuranosyl-1H-imidazole-4-carboxamide CAS# 2627-69-2

California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm:

WHMIS Hazard Class

D2B Toxic Material causing other toxic effects Moderate skin Irritant Moderate respiratory irritant Moderate eye irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

Revision date 2012-07-27

Revision Note ***Indicates updated section

Disclaimer

The information provided on this material safety data sheet is to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Material Safety Data Sheet