m$_2$$^{7,3'}$OGP$_3$G (ARCA Cap Analog) - Solution
m$_2$$^{7,3'}$OG(S')ppp(S')G
P$_1$-(S'-(3'-O-methyl)-7-methyl-guanosyl) P$_1$-(S'-(guanosyl))triphosphate, Sodium salt

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product Name: m$_2$$^{7,3'}$OGP$_3$G - Solution (ARCA Cap Analog)
Catalog Number: NU-855S; NU-855L
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2. HAZARDS IDENTIFICATION
This substance is not classified as dangerous according to Regulation (EC) No. 1272/2008 (EU-GHS/CLP).

3. COMPOSITION/INFORMATION ON INGREDIENTS
Synonyms:
Formula: C$_{22}$H$_{31}$N$_{10}$O$_{18}$P$_3$ (free acid)
Molecular Weight: 816.46 g/mol (free acid)
CAS-No.: 400806-46-4 (acid), 400806-60-2 (Trisodium salt)
EC number:
Classification:
Concentration: 100 mM - 110 mM

4. FIRST AID MEASURES
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration.

In case of skin contact
Wash off with soap and plenty of water.

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.

5. FIRE-FIGHTING MEASURES
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.
m273'-O-GP3G (ARCA Cap Analog) - Solution
m273'-O-G(S')ppp(S')G
P1-(S'-(3'-O-methyl)-7-methyl-guanosyl) P1-(S'-(guanosyl))triphosphate, Sodium salt

6. ACCIDENTAL RELEASE MEASURES
   Personal precautions
   Avoid dust formation.

   Environmental precautions
   Do not let product enter drains.

   Methods and materials for containment and cleaning up
   Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE
   Handling
   Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

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

   Recommended storage temperature: store at -20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
   Personal protective equipment
   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).

   Hand protection
   For prolonged or repeated contact use protective gloves.

   Eye protection
   Safety glasses

   Hygiene measures
   General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES
   Appearance
   Form: clear aqueous solution

   Safety data
   pH: 7.5 ±0.5
   Melting point: no data available
   Boiling point: no data available
m2\textsuperscript{73'-O}G\textsubscript{3}P\textsubscript{3} (ARCA Cap Analog) - Solution
m2\textsuperscript{73'-O}G(5')ppp(5')G
P\textsuperscript{1}-(5'-(3'-O-methyl)-7-methyl-guanosyl) P\textsuperscript{1}-(5'-(guanosyl))triphosphate, Sodium salt

10. STABILITY AND REACTIVITY

Storage stability
Stable under recommended storage conditions.

Materials to avoid
Strong oxidizing agents.

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

Irritation and corrosion
no data available

Sensitisation
no data available

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

Signs and Symptoms of Exposure
Dermatitis

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.
Target Organs: Liver, Kidney

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
m\textsubscript{2}\textsuperscript{7',3'-O}GP\textsubscript{3}G (ARCA Cap Analog) - Solution

m\textsubscript{2}\textsuperscript{7',3'-O}G(\textsuperscript{5'}ppp(\textsuperscript{5'}G)
P\textsuperscript{1}-\textsuperscript{(5'-(3'-O-methyl)-7-methyl-guanosyl)} P\textsuperscript{1}-\textsuperscript{(5'-(guanosyl))} triphosphate, Sodium salt

no data available

Ecotoxicity effects
no data available

Further information on ecology
no data available

13. DISPOSAL CONSIDERATIONS

Product
Observe all federal, state, and local environmental regulations.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EC Directives
The product does not need to be labelled in accordance with EC directives or respective national laws.

16. OTHER INFORMATION

Further information
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