

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 13/08/2018 Revision date: Version: 1.0 : ULM-10698-CA

<b>SECTION 1: Identification of the s</b>	substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Mixtures		
Product name	: 2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM SALT UNLABELED CHEMICAL PURITY >90% (IN SOLN)		
Product code	: ULM-10698-CA		
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Main use category	: Professional use		
Industrial/Professional use spec	: For professional use only		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the saf	ety data sheet		
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA			
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com	)		
Emergency telephone number			
Emergency numbers:			
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)			
<b>SECTION 2: Hazards identificatio</b>	n ,		
2.1. Classification of the substance of	or mixture		
Classification according to Regulation (E Not classified	C) No. 1272/2008 [CLP]		
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified			
GHS-US classification			
Not classified			
Adverse physicochemical, human health and environmental effects No additional information available			
2.2. Label elements			
Labeling according to Regulation (EC) No No labeling applicable	). 1272/2008 [CLP]		
GHS-US labeling			
No labeling applicable			

2.3. **Other hazards** 

No additional information available

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

#### Not applicable

#### 3.2. **Mixtures Product identifier Classification according to** Name % Directive 67/548/EEC (CAS-No.) 7732-18-5 (EC-No.) 231-791-2 WATER UNLABELED 94.067 Not classified 2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM (CAS-No.) 3828-96-4 5.933 Not classified SALT UNLABELED CHEMICAL PURITY >90% (EC Index-No.) Name **Product identifier** % **Classification according to** Regulation (EC) No. 1272/2008 [CLP] WATER UNLABELED (CAS-No.) 7732-18-5 94.067 Not classified (EC-No.) 231-791-2 2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM (CAS-No.) 3828-96-4 5.933 Not classified SALT UNLABELED CHEMICAL PURITY >90% (EC Index-No.) Name **Product identifier** % **GHS-US** classification WATER UNLABELED (CAS-No.) 7732-18-5 94.067 Not classified 2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM (CAS-No.) 3828-96-4 5.933 Not classified SALT UNLABELED CHEMICAL PURITY >90%

#### Full text of R- and H- phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	3
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	<ul> <li>Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.</li> </ul>
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
Other information	: The product itself does not burn.
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
· · · · · · · · · · · · · · · · · · ·	
Emergency procedures	: Avoid breathing vapors, mist, gas. Avoid dust formation.

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6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Do	not allow to enter drains or water courses. Avoid release to the environment.	
6.3. Methods and material for containme	nent and cleaning up	
For containment	: Dike and contain spill. Clean up any spills as soon as possible, using an absorbent material to collect it.	
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.	
6.4. Reference to other sections		
For further information refer to section 13.		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Provide adequate ventilation to minimize dust and/or vapor concentrations.	
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.	
7.2. Conditions for safe storage, includ	ling any incompatibilities	
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.	
Storage conditions	: Store in freezer (-20 C). Protect from light.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/pers	sonal protection	
8.1. Control parameters		
No additional information available		
8.2. Exposure controls		
Appropriate engineering controls	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.	
Materials for protective clothing	: Wear suitable protective clothing and gloves.	
Hand protection	: Wear suitable protective clothing and gloves.	
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.	
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.	
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.	
Environmental exposure controls	: Avoid release to the environment.	
<b>SECTION 9: Physical and chemical</b>	properties	
9.1. Information on basic physical and	chemical properties	
The properties listed below are for the solvent, the main component of this mixture.		

The properties listed below are for the solvent, the main component of this mixture.				
Physical state	: Liquid			
Appearance	: Liquid			
Molecular mass	: 18.02 g/mol			
Color	: Colorless			
Odor	: No data available			
Odor threshold	: No data available			
рН	: 6.0 - 8.0 at 25 °C (77 °F)			
Relative evaporation rate (butyl acetate=1)	: No data available			
Melting point	: 0 °C (32.0 °F)			
Freezing point	: No data available			
Boiling point	: 100 °C (212.0 °F)			
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Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1 g/ml at 20 °C (68 °F)
Solubility	: Water: Completely miscible
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECT	CTION 10: Stability and reactivity	
10.1.	I. Reactivity	
No additional information available		
10.2.	2. Chemical stability	
Stable	ble if stored under recommended conditions.	
10.3.	3. Possibility of hazardous reactions	
No add	additional information available	
10.4.	4. Conditions to avoid	
No add	additional information available	
10.5.	5. Incompatible materials	
Strong	ong oxidizing agents.	
10.6.	6. Hazardous decomposition products	
Carbor	bon oxides (CO, CO2).	

#### **SECTION 11: Toxicological information**

 11.1.
 Information on toxicological effects

 Acute toxicity
 : Not classified

2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM SALT UNLABELED CHEMICAL PURITY >90% (IN SOLN)				
LD50 oral rat	> 90000 mg/kg			
WATER UNLABELED (7732-18-5)				
LD50 oral rat	> 90000 mg/kg			
Skin corrosion/irritation	: Not classified			
	pH: 6.0 - 8.0 at 25 °C (77 °F)			
Serious eye damage/irritation	: Not classified			
	pH: 6.0 - 8.0 at 25 °C (77 °F)			
Respiratory or skin sensitization	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
Specific target organ toxicity - single exposure	: Not classified			
Specific target organ toxicity – repeated exposure	: Not classified			
Aspiration hazard	: Not classified			

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Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

SECTION 12: Ecological information	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
2.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
Results of PBT and vPvB assess           No additional information available	ient
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	bns
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a license professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	n
In accordance with ADR / RID / IMDG / IATA /	ADN
14.1. UN number	
Not applicable	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Not dangerous.
Overland transport	
No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
14.4. Environmental hazards	
Other information	: No supplementary information available.
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#### 14.5. Special precautions for user

Special transport precautions

: Not dangerous.

#### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

<b>SECTION 15: Regulatory information</b>			
15.1. US Federal regulations			
2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM SALT UNLABELED CHEMICAL PURITY >90% (IN SOLN)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
WATER UNLABELED (7732-18-5)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM SALT UNLABELED CHEMICAL PURITY >90% (3828-96-4)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		

#### 15.2. International regulations

#### CANADA

2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM SALT UNLABELED CHEMICAL PURITY >90% (IN SOLN) Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM SALT UNLABELED CHEMICAL PURITY >90% (IN SOLN)						
U.S California - Proposition 65 - Carcinogens List		N	No			
U.S California - Proposition 65 - Developmental Toxicity		N	No			
U.S California - Proposition 65 - Reproductive Toxicity - Female		N	No			
U.S California - Proposition 65 - Reproductive Toxicity - Male		N	No			
State or local regulations			U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List			
WATER UNLABELED (773	2-18-5)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No		No	No		
2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM SALT UNLABELED CHEMICAL PURITY >90% (3828-96-4)						
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No		No	No		
WATER UNLABELED (7732-18-5)						
State or local regulations						
U.S Pennsylvania - RTK (Right to Know) List						

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#### WATER UNLABELED (7732-18-5)

#### U.S. - New Jersey - Right to Know Hazardous Substance List

#### 2-FLUOROADENOSINE 5'-TRIPHOSPHATE, AMMONIUM SALT UNLABELED CHEMICAL PURITY >90% (3828-96-4)

#### State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information	
Other information	: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard

#### CIL Mixture SDS

Physical

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

: 0 Minimal Hazard