

MSDS# 44453

Section 1 - Chemical Product and Company Identification

MSDS Name: Adenosine 2':3'-Cyclic Monophosphate, Sodium Salt Hydrate  
 Catalog Numbers: AC228210000, AC228211000, AC228212500  
 Synonyms: None.

Company Identification: Acros Organics BVBA  
 Janssen Pharmaceuticaalaaan 3a  
 2440 Geel, Belgium  
 Acros Organics  
 One Reagent Lane  
 Fair Lawn, NJ 07410

Company Identification: (USA)  
 For information in the US, call: 800-ACROS-01  
 For information in Europe, call: +32 14 57 52 11  
 Emergency Number, Europe: +32 14 57 52 99  
 Emergency Number US: 201-796-7100  
 CHEMTREC Phone Number, US: 800-424-9300  
 CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 37063-35-7  
 Chemical Name: Adenosine 2':3'-Cyclic Monophosphate, Sodium Salt Hydrate  
 %: ca 100  
 EINECS#: 253-328-3

Hazard Symbols: None listed  
 Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation. The toxicological properties of this material have not been fully investigated.  
 Skin: May cause skin irritation. The toxicological properties of this material have not been fully investigated.  
 Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.  
 Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.  
 Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
 Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If  
 Ingestion: conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.  
 Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.  
 Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature: Not available  
 Flash Point: Not available  
 Explosion Limits: Lower: Not available  
 Explosion Limits: Upper: Not available

NFPA Rating: health: 1; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.  
 Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.  
 Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Deep freeze (below -20°C).

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Adenosine 2':3'-Cyclic Monophosphate, Sodium Salt Hydrate	none listed	none listed	none listed

OSHA Vacated PELs: Adenosine 2':3'-Cyclic Monophosphate, Sodium Salt Hydrate: None listed

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
 Skin: Wear appropriate protective gloves to prevent skin exposure.  
 Clothing: Wear appropriate protective clothing to prevent skin exposure.  
 Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder  
 Color: white  
 Odor: odorless  
 pH: Not available  
 Vapor Pressure: Not available  
 Vapor Density: Not available  
 Evaporation Rate: Not available  
 Viscosity: Not available  
 Boiling Point: Decomposes  
 Freezing/Melting Point: 241.00 - 243.00 deg C

Decomposition Temperature:  
 Solubility in water: Not available  
 Specific Gravity/Density:  
 Molecular Formula: C10H11N5O6NaP.xH2O  
 Molecular Weight: 351.19

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.  
 Conditions to Avoid: Incompatible materials, dust generation, excess heat, strong oxidants.  
 Incompatibilities with Other Materials: Not available  
 Hazardous Decomposition Products: Carbon monoxide, oxides of nitrogen, irritating and toxic fumes and gases, carbon dioxide, sodium oxide.  
 Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 37063-35-7: None listed  
 LD50/LC50: RTECS: Not available.  
 Carcinogenicity: Adenosine 2':3'-Cyclic Monophosphate, Sodium Salt Hydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
 Epidemiology: Not available  
 Teratogenicity: Not available  
 Reproductive: Not available  
 Neurotoxicity: Not available  
 Mutagenicity: Not available  
 Other: Not available

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT  
 Shipping Name: Not regulated as a hazardous material  
 Hazard Class:  
 UN Number:  
 Packing Group:  
 Canada TDG  
 Shipping Name: Not available  
 Hazard Class:  
 UN Number:  
 Packing Group:

Section 15 - Regulatory Information

US Federal  
 TSCA  
 CAS# 37063-35-7 is not listed on the TSCA Inventory. It is for research and development use only.

Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.  
 Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.  
 Section 12b: None of the chemicals are listed under TSCA Section 12b.  
 TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs: None of the chemicals in this material have an RQ.  
 SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.  
 Section 313: No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.  
 Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:  
 STATE: Adenosine 2':3'-Cyclic Monophosphate, Sodium Salt Hydrate is not present on state lists from CA, PA, MN, MA, FL, or NJ.  
 California Prop 65  
 California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available  
 Risk Phrases:  
 Safety Phrases:  
 S 24/25 Avoid contact with skin and eyes.  
 S 28A After contact with skin, wash immediately with plenty of water.  
 S 37 Wear suitable gloves.  
 S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 37063-35-7: 1

Canada

Canadian WHMIS Classifications: Not available  
 This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.  
 CAS# 37063-35-7 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: 1/07/1999

Revision #3 Date 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.