

Section 1: Identification

Common Name/Trade Name	ACYCLOVIR USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours) NSW Poisons Information Centre: 131 126 (24 hours)
Distributor Name	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: bellacorp@bellacorp.com.au	
Product Synonym(s)	9-[(2-Hydroxyethoxy)methyl]guanine; 2-amino-9-[(2-hydroxyethoxy)methyl]-1,9-dihydro-6H-purin-6-one	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Serious eye damage/eye irritation Category 2B	
Signal Word	Warning	
Hazard Statement(s)	H320	Causes eye irritation
Pictogram(s)	N/A	
Precautionary Statement(s)	P264 P305+P351+P338 P337+P313	Wash hands thoroughly after handling. 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.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data Available	

Section 3: Composition/Information on Ingredients

Chemical Name	9-[(2-Hydroxyethoxy)methyl]guanine; 2-amino-9-[(2-hydroxyethoxy)methyl]-1,9-dihydro-6H-purin-6-one
Common Name	Acyclovir
CAS Number	59277-89-3
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed healthcare provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
If Inhaled	Move to fresh air. Call a physician if symptoms develop or persist.
In Case of Skin Contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
In Case of Eye Contact	Rinse with water. Get medical attention if irritation develops and persists.
If Swallowed	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most Important Symptoms and Effects	Irritation of eyes and mucous membranes. Treatment of overdose should be symptomatic and supportive and may include the following: Provide adequate hydration to prevent precipitation of acyclovir in the renal tubules. Administer activated charcoal as a slurry. Monitor for abnormal renal function, elevated hepatic enzymes, and significant CNS symptoms. Hemodialysis may aid in the removal of acyclovir from the blood. Peritoneal dialysis is not effective in providing acyclovir clearance. [Meditext 2008 and USP DI 2008].

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials. Water. Foam. Dry chemical or CO2.
Special Hazards Arising From the Substance/Mixture	Explosion hazard: Avoid generating dust, fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. No unusual fire or explosion hazard noted.
Special PPE and/or Precautions for Firefighters	Wear suitable protective equipment. Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.
Methods and Materials Used for Containment	Keeping away from drains, surface, and ground water.
Cleanup Procedures	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

Section 7: Handling and Storage

Precautions for Safe Handling	As a general rule, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions.
Conditions for Safe Storage	Keep container tightly closed. Protect from light and moisture. Store at room temperature.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Exposure limit values: Type: TWA Value: 5mg/m3. No biological exposure limit values noted for the ingredient.
Appropriate Engineering Controls	Airborne exposure should be controlled primarily by engineering controls such as a general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for grinding, crushing, weighing, or other dust-generating procedures. Handle in accordance with good industrial hygiene and safety practice.
PPE - Eye/Face Protection	Safety glasses with side shields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z 87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.
PPE - Skin Protection	Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.
PPE - Body Protection	For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.
PPE - Respiratory Protection	Where respirators are deemed necessary to reduce or control occupational exposures, use an approved/certified respirator.

Section 9: Physical and Chemical Properties

Appearance	White to off-white crystalline powder
Upper/Lower Flammability or Explosive Limits	Not available.
Odor	Odorless. Not available.
Vapor Pressure	< 0.0000001 kPa at 25°C
Odor Threshold	Not available
Vapor Density	Not available
pH	6.8-7 (10%) Not available.
Relative Density	Not available
Melting Point/Freezing Point	256-257°C (decomposes)
Solubility	Very slightly soluble in cold water, ethanol.
Initial Boiling Point and Boiling Range	Not available.
Flash Point	Not available
Evaporation Rate	Not available
Flammability (Solid, Gas)	Not available
Partition Coefficient	-1.56
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available

Section 10: Stability and Reactivity

Reactivity	No reactivity hazards known.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	None known.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	NOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Oral - rat - > 20,000 mg/kg LD50 Oral mouse > 10000 mg/kg,
Acute Toxicity - Inhalation	LC50 Inhalation >15.1 mg/l.
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	Causes eye irritation.
Skin Corrosion/Irritation	Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation	Causes eye irritation.
Respiratory or Skin Sensitization	Due to lack of data the classification is not possible.
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met. Chinese hamster cells: Clastogenic. Chinese hamster ovary cell assays: Negative. Dominant lethal study in mice: Negative. Human lymphocyte cytogenic analysis: Positive. Microbial assays: Negative.
Carcinogenicity IARC	Based on available data, the classification criteria are not met. IARC Group 3: this material is not classifiable as to its carcinogenicity in humans. Not considered to be a carcinogen by IARC.
Carcinogenicity ACGIH	No data available.
Carcinogenicity NTP	Not considered to be a carcinogen by NTP.
Carcinogenicity OSHA	Not considered to be a carcinogen by OSHA.
Reproductive Toxicity	Based on available data, the classification criteria are not met. 450 mg/kg day Reproductive study: no increase in birth defects in offspring; did not impair fertility. Species Mouse. 50 mg/kg/day Reproductive study: Result: No increase in birth defects in offspring. Species Rabbit. 50mg/kg/day Reproductive study. Result No increase in birth defects in offspring. Species Rat. 50mg/kg/day Reproductive study: Result Significant decrease in implantation efficiency, but no decrease in litter size. Species Rabbit.
Specific Target Organ Toxicity - Single Exposure	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity - Repeated Exposure	Based on available data, the classification criteria are not met.
Aspiration Hazard	Based on available data, the classification criteria are not met.

Section 12: Ecological Information

Toxicity	No ecotoxicity data noted for the ingredient.
Persistence and Degradability	No data is available on the degradability of this product.
Bio-accumulative Potential	Not available
Mobility in Soil	Not available.
Other Adverse Effects	Not available.

Section 13: Disposal Considerations

Waste Treatment Methods Product	General: Dispose of this material and its container at hazardous or special waste collection point.
Waste Treatment Methods Packaging	Dispose in a safe manner in accordance with local/national regulations.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	N/A

Section 15: Regulatory Information

US federal and state regulations: CERCLA/SARA Hazardous Substances - Not applicable. One or more components are not listed on TSCA. Superfund Amendments and Reauthorization Act of 1986 (SARA): Hazard categories: Immediate Hazard - Yes. Delayed Hazard - No. Fire Hazard - Yes. Pressure Hazard - No. Reactivity Hazard - No. SARA 302 Extremely hazardous substance: No. SARA 311/312 Hazardous chemical: No. Other federal regulations: Safe Drinking Water Act (SDWA): Not regulated. US state regulations: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. International Inventories: Australia Inventory of Chemical Substances (AICS) On Inventory- Yes. Canada: Domestic Substances List (DSL) On Inventory- Yes. Canada Non-Domestic Substances List (NDSL) On Inventory No. China Inventory of Existing Chemical Substances in China (IECSC)- Yes. Europe European Inventory of Existing commercial Chemical Substances (EINECS) Yes. Europe- European List of Notified Chemical Substances (ELINCS) No. Japan Inventory of Existing and New Chemical Substances (ENCS) No. Korea Existing Chemicals List (ECL) Yes. New Zealand New Zealand Inventory Yes. Philippines: Philippine Inventory of Chemicals and Chemical substances (PICCS) No. United States & Puerto Rico: Toxic Substances Control Act (TSCA) Inventory No. A Yes indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Section 16: Other Information

Additional Information	N/A
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