

Anqing world Chemical CO., LTD.

No.128 Huancheng west road, AnQing County, AnHui Province, China.



Chemical Material Safety Data Sheet

化学品安全数据表 (MSDS)

Chemical Name/化学品名称: 9-(4-羟基-3-羟甲基-2-亚甲基环戊-1-基)鸟嘌呤水合物; 恩替卡韦一水合物; 2-氨基-9-[(1S,3R,4S)-4-羟基-3-羟甲基-2-亚甲戊基]-1,9-氢-6-H-嘌呤-6-酮一水合物

Part 1 Chemical and Manufacturer Introduction

第一部分 化学品及企业标识

Chemical Name (Chinese)/中文名称	恩替卡韦一水合物
Trivial name/化学品俗名	9-(4-羟基-3-羟甲基-2-亚甲基环戊-1-基)鸟嘌呤水合物; 恩替卡韦一水合物; 2-氨基-9-[(1S,3R,4S)-4-羟基-3-羟甲基-2-亚甲戊基]-1,9-氢-6-H-嘌呤-6-酮一水合物
Chemical Name (English)/英文名称	Entecavir hydrate
Company Identification/公司标识	Anqing world Chemical CO., LTD. No.128 Huancheng west road, AnQing County, AnHui Province, China.

Part 2 Component information

第二部分 成分/组成信息

Item/项目	Name/名称	Content./含量 (%)	CAS No./CAS 编号	Molecular formula/分子式	Molecular Weight/分子量
Major component/主要组成	ET	100	209216-23-9	C ₁₂ H ₁₅ N ₅ O ₃ ·H ₂ O	295.29
Impurities/其它可能杂质	N/A	N/A	N/A	N/A	N/A

Part 3 Hazards Description

第三部分 危险性概述

Hazards class /危险性类别	N/A
Exposure pathway/侵入途径	Eye contact. Inhalation. Ingestion/皮肤接触、眼睛接触、吸入、食入
Health effect/健康危害	Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator). /可能对眼睛、皮肤、粘膜和上呼吸道有刺激作用。
Environment hazards/环境危害	Harmful to the environment, pollute water and soil/对环境有危害，对水体和土壤可造成污染。
Hazards from combustion and explosion 燃爆危险	This product is flammable, irritant/本品易燃，具刺激性。

Part 4 emergency disposal

第四部分 急救措施

Skin contact/皮肤接触	Immediately wash skin with soap and copious amounts of water for at least 10 minutes. If irritation persists, seek medical attention. 立即清洗皮肤，用肥皂和大量的水冲洗至少 10 分钟。如果刺激持续，就医。
Eye contact/眼睛接触	Immediately flush eyes with copious amounts of water for at least 15 minutes. Seek medical advice. 立即用大量的水冲洗眼睛至少 15 分钟。征求医生的意见
Inhalation/吸入	Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention 转移到空气新鲜。如果呼吸停止，立

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	即进行人工呼吸。如呼吸困难，给输氧。就医
<i>Eat/食入</i>	Get medical aid. Wash mouth out with water./饮足量温水，催吐。就医。

Part 5 Firefighting

第五部分 消防措施

<i>Hazardous characteristics / 危险特性</i>	N/A
<i>Hazardous combustion product / 有害燃烧产物</i>	N/A
<i>Extinguish Method and media 灭火方法及灭火介质</i>	Carbon dioxide, dry chemical powder or appropriate foam. Water spray/二氧化碳，干粉或适当的泡沫。喷水
<i>Note/灭火注意事项</i>	Wear self-contained breathing apparatus and protective clothing to prevent contact with the skin and eyes./佩戴自给式呼吸器和防护服以防止接触皮肤和眼睛。

Part 6 Leakage emergency disposal

第六部分 泄露应急处理

<i>Leakage emergency disposal/ 泄露应急处理</i>	Clean up spills immediately, using the appropriate protective equipment. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation./ 马上清理泄漏，使用适当的防护设备。清扫干净，然后放入合适的容器中进行处理。避免产生尘土飞扬的条件。提供良好的通风。
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Part 7 Operation and Storage

第七部分 操作处置与储存

<i>Note on operation/操作注意事项</i>	Closed operation, enhanced ventilation. The operator must go through specialized training, strict adherence to rules. Proposed operators wear filter respirators (half-mask), wearing chemical protective safety glasses, wear protective overalls on infiltration, wearing rubber gloves. Away from fire, heat source, workplace smoking. Use explosion proof ventilation systems and equipment. Prevent vapor leakage into the workplace air. Avoid contact with oxidants. Filling should control the flow rate, and grounding device to prevent the accumulation of static electricity. Handling of light when light unloading, packaging and containers to prevent damage. Equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage. Empty containers may be harmful residues. 密闭操作，加强通风。操作人员必须经过专门培训，严格遵守操作规程。建议操作人员佩戴过滤式防毒面具（半面罩），戴化学安全防护眼镜，穿防毒物渗透工作服，戴橡胶耐油手套。远离火种、热源，工作场所严禁吸烟。使用防爆型的通风系统和设备。防止蒸气泄漏到工作场所空气中。避免与氧化剂接触。灌装时应控制流速，且有接地装置，防止静电积聚。搬运时要轻装轻卸，防止包装及容器损坏。配备相应品种和数量的消防器材及泄漏应急处理设备。倒空的容器可能残留有害物。
<i>Notes on storage/储存注意事项</i>	Store in a cool, dry place. Keep container closed when not in use. Keep containers tightly closed. 储存在阴凉，干燥的地方。在不使用时保持容器封闭。保持容器密闭。

陈恩兴



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Part 8 Labor Protection 第八部分 接触控制/个体防护

<i>Maximum allowable concentration</i> /最高容许浓度	N/A
<i>Monitoring Method</i> /监测方法	N/A
<i>Process control</i> /工程控制	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. 存放或使用这种材料, 应配备洗眼装置和安全淋浴设施。
<i>Respiration protection</i> /呼吸系统防护	If ventilation is not available a respirator should be worn/空气中浓度超标时, 佩戴过滤式防毒面具(半面罩)。紧急事态抢救或撤离时, 建议佩戴空气呼吸器。
<i>Eye protection</i> /眼睛防护	Wear safety glasses when handling a chemical substance in the laboratory. 戴化学安全防护眼镜。
<i>Body protection</i> /身体防护	Wear appropriate protective clothing to minimize contact with skin. 穿戴适当的防护衣物, 以减少与皮肤接触。
<i>Hand protection</i> /手防护	Wear protective clothing and gloves. 穿戴防护服和手套。
<i>Others</i> /其它	Work site prohibit smoking, eating and drinking. After work, take a shower. Maintain good health habits. 工作现场禁止吸烟、进食和饮水。工作完毕, 淋浴更衣。保持良好的卫生习惯。

Part 9 Physical and Chemical Characteristics 第九部分 理化性质

<i>Appearance</i> 外观与性状	White Powder/白色粉末		
<i>pH/pH</i> 值	N/A	<i>Critical Temp.</i> /临界温度(°C)	N/A
<i>Melting Point</i> /熔点	N/A	<i>Critical Pressure</i> /临界压力(MPa)	N/A
<i>Boiling Point</i> /沸点	661.4°C at 760 mmHg	<i>Ignition Temp.</i> /引燃温度(°C)	N/A
<i>Flash point</i> /闪点(°C)	353.8°C	<i>density.</i> / 密度(g/cm ³)	N/A
<i>Vapor density related to air</i> /相对蒸气密度(空气=1)	2.15E-18mmHg g at 25°C	<i>Logarithm of dispensing coefficient in Octanol/Water</i> /辛醇/水分配系数对数值	N/A
<i>Saturated vapor pressure</i> /饱和蒸气压(kPa)	N/A	<i>Upper explosive limit</i> /爆炸上限%(V/V)	N/A
<i>Combustion heat</i> /燃烧热(kJ/mol)	N/A	<i>Low explosive limit</i> /爆炸下限%(V/V)	N/A
<i>Solubility</i> /溶解性	N/A		
<i>Main application</i> /主要用途	N/A		
<i>Others</i> /其它	N/A		

Part 10 Stability and Reactivity 第十部分 稳定性和反应活性

<i>Stability</i> /稳定性	The product is stable/该产品是稳定的
<i>Material to avoid</i> /禁忌物	N/A
<i>Condition to avoid</i> /避免的条件	N/A



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<i>Polymerization/聚合危害</i>	N/A
<i>Decomposition products/分解产物</i>	N/A

Part 11 Toxicological Data

第十一部分 毒理学资料

<i>Acute toxicity/急性毒性</i>	N/A
<i>Subacute and chronic toxicity/亚急性和慢性毒性</i>	N/A
<i>Irritation/刺激性</i>	N/A
<i>Sensitization/致敏性</i>	N/A
<i>Mutagenicity/致突变性</i>	N/A
<i>Teratogenicity/致畸性</i>	N/A
<i>Carcinogenicity/致癌性</i>	N/A
<i>Others/其它</i>	N/A

Part 12 Ecological information Data

第十二部分 生态学资料

<i>Ecological toxicological/生态毒性</i>	N/A
<i>Biodegration / 生物降解性</i>	N/A
<i>Abioticdegradation/非生物降解性</i>	N/A
<i>Bio-concentration/Bio-accumulation /生物富集或生物累积性</i>	N/A
<i>Others/其它有害作用</i>	N/A

Part 13 Disposal considerations

第十三部分 废弃处置

<i>Waste description /废弃物性质</i>	N/A
<i>Disposal method/废弃物处置方法</i>	The predisposal should refer to the relevant state and local laws and regulations. Proposed disposal by incineration/处置前应参阅国家和地方有关法规。建议用焚烧法处置。
<i>Notes/废弃注意事项</i>	N/A

Part 14 Transportation

第十四部分 运输信息

<i>Code /危险货物编号</i>	N/A
<i>UN Code/UN 编号</i>	N/A
<i>Package mark/包装标志</i>	N/A
<i>Kinds of package/包装类别</i>	N/A
<i>Packing method/包装方法</i>	N/A
<i>Caution during transportation/运输注意事项</i>	N/A



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Part 15 Regulatory reference

第十五部分 法规信息

<i>Regulatory reference/法规信息</i>	N/A
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Part 16 Other information

第十六部分 其它信息

<i>Reference literature/参考文献</i>	N/A
<i>Effective date of previous version / 上一版生效日期</i>	N/A
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<i>Others/其它</i>	N/A

Note: MSDS information should be updated every five years./注: MSDS 提供的信息每五年进行一次更新。

