

Xinhua Pharma.



新华制药进出口公司

6-氨基-1,3-二甲基尿嘧啶 6-Amino-1,3-dimethyluracil(DMAU)

产品优势Advantages :

微粉级,均混性能好;

ISO9001,ISO14001,自配套水处理环保设施;

国有大型企业,产品质量稳定;

依托于年产几万吨原料药的生产线,是国内外最大的DMAU生产商;

钙锌复合PVC热稳定剂、OBS的重要成分之一;

高效安全环保无毒、取代铅盐稳定剂;

Microanized grade, better performance in homogeneously mixing;

ISO9001, ISO14001 certificate, have our own environment protection facility of waste water treatment;

Big state-owned company, stable product quality;

Based on API' s producing line, is the leading manufacturer of DMAU;

Important ingredient for Calcium/Zinc Stabilizer or OBS;

Of higher efficiency, safer, of environment protection, non-toxic, to replace lead salts stabilizer;

用途Application:

6-氨基-1,3-二甲基尿嘧啶(6-氨基-1,3-二甲基腺嘧啶), 我公司自用于茶碱等的合成; 也广泛用于PVC热稳定剂的原辅料;



6-Amino-1,3-dimethyluracil(DMAU), in pharmaceutical industry, Xinhua, ourselves use it in synthesis of Theophylline and etc.; also can be widely used as ingredient for PVC heat stabilizer;



简介Capacity :

该产品是我公司的主打产品之一，我公司为该产品最大生产商，有欧盟REACH正式注册；It is our strong product, we are the leading manufacturer of it, have formal EU-REACH registration;

技术说明书Technical Data Sheet :

化学名：6-氨基-1,3-二甲基尿嘧啶(6-氨基-1,3-二甲基脲嘧啶)

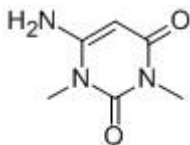
Chemical Name: 6-Amino-1,3-dimethyluracil(DMAU)

分子式Formula: C₆H₉N₃O₂

分子量MW: 155.16

Cas#: 6642-31-5

结构式Structure Formula:



物理特性Physical Properties:

颜色Color: 类白色到淡黄色粉末off-white to light yellow powder;

20degC下比重Specific Gravity at 20degC: 无N/A;

规格Specifications:

含量Assay: 大于99.0% min.;

干燥失重loss on drying: 小于1%max.;

粒度Particle size, 45 μ m: 大于99%min.;

包装Packing:

25kgs塑编袋25kgs plastic woven bag;



产品作用原理mechanism :

一、6-氨基-1,3-二甲基尿嘧啶（简称DMAU）作用原理:

熔点高达290 $^{\circ}$ C以上，200 $^{\circ}$ C加热减量 < 1%，本身特性能够适应PVC生产过程。DMAU能吸收PVC生产过程中产生的HCl，还能取代不稳定氯原子。与ZnSt₂共同使用时，DMAU能与ZnCl₂发生反应，生成金属络合物，使ZnCl₂失去活性，能防止“锌烧”，大大增强PVC样品的长期稳定性；

DMAU中主要基团尿嘧啶是人体必需的四种核苷酸之一，对人体绝对安全无害；

DMAU因此被认为是高效且安全的热稳定剂；

A. Mechanism:

with melting point of more than 290degC, loss on drying under 200degC of less than 1%, it suits for PVC' s producing process. Can absorb HCl which is by-produced during producing process of PVC, can replace Cl- which is not stable. When be used with ZnSt₂, can react with ZnCl₂ to create metal complex, then ZnCl₂ losses its activity, so can avoid PVC' s color from changing into darker, improve PVC' s long term stability;

Its basic chemical structure 'uracil' is one of the essential nucleotides of the human body, has no hazardous to human;

So it is taken as PVC heat stabilizer of high-efficiency and safety;

二、DMAU与ZnSt2:

含有DMAU/ZnSt2复合稳定剂，无论初期白度还是长期稳定性都比含有CaSt2/ZnSt2复合稳定剂的更好。DMAU与ZnSt2共同使用时具有良好的系统稳定效果，比目前工业上常用的协同效果更好；

B. DMAU and ZnSt2:

Stabilizer of DMAU/ZnSt2 is better than stabilizer of CaSt2/ZnSt2 on both initial whiteness and long term stability; DMAU/ZnSt2 is of systematic stability, its efficiency is better than that of CaSt2/ZnSt2, which is of synergistic stability;

三、DMAU与水滑石（或沸石）:

DMAU与水滑石（或沸石，沸石更节省成本）同时使用，在钙锌稳定剂的配方中，加入3-4%的DMAU和8-10%的水滑石或沸石，能更好地抑制PVC初期着色度，该配方更加经济可靠；

C. DMAU and Hydrotalcite(or Aluminosilicate):

To add 3-4% of DMAU and 8-10% hydrotalcite(or Aluminosilicate, whose cost is lower) into Calcium/Zinc stabilizer, it can improve PVC' s initial colorless, and is more economic;

四、DMAU与β-二酮:

DMAU与β-二酮都是新兴的有机稳定剂，两者单独进行比较，DMAU在抑制初期着色和长期热稳定性方面都能更胜一筹。实际生产过程中DMAU既可以完全替代β-二酮，也可以与β-二酮共同使用；

D. DMAU and Stearoyl benzoyl methane:

DMAU can improve PVC' s initial colorless and long term heat stability, so is Stearoyl benzoyl methane; when preparing PVC stabilizer, DMAU can replace stearoyl benzoyl methane, DMAU can be used together with stearoyl benzoyl methane also;

五、DMAU发展历程:

DMAU应用于PVC稳定剂的技术最早是由美国Chemtura研发，其将DMAU广泛的应用于其各种无铅稳定剂的配方中。随着世界对铅盐稳定剂的限制，DMAU作为无铅稳定剂中的新星。新华制药依托于年产几万吨原料药的生产线，是国内外最大的DMAU生产商。

E. History of DMAU:

The world main producers of PVC stabilizer are cooperating with us. Accompany more and more countries forbid to use lead salts PVC stabilizer, it will be used more and more widely; Based on the API caffeine' s producing line, we are the leading manufacturer of DMAU.



新华制药进出口公司

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