



Technical Data Sheet (TDS)

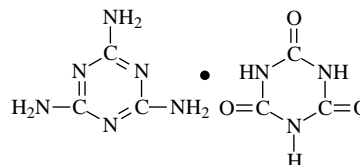
Product name: Melamine Cyanurate

Product code: Phlamoon-108

Molecular Weight: 255.2

CAS: 37640-57-6

Empirical formula : C₆H₉N₉O₃



Features:

Melamine cyanurate (M C A) is a kind of salt synthesized from melamine and cyanuric acid, and belongs to nitrogen-containing flame retardant. Two types (powdered and granulated) of MCA can be supplied to meet the users' requirements. When MCA decomposes, it can liberate a large amount of inert gases to dilute oxygen and the fuel gases present at the point of combustion, and absorb a large quantity of heat. In addition, MCA can accelerate the char-forming of the flame-retarded polymers. In this case, there are three type actions of flame retardant mechanisms.

Specifications

Appearance	White even granular
MCA Content, %	≥99.5
Excess Melamine, %	≤0.2
Excess Cyanuric Acid, %	≤0.2
Loss on drying, %	≤0.2
Particle Size (d50), um	≤5

Benefits:

Melamine Cyanurate is a halogen-free flame retardant for polyamide. Melamine Cyanurate has established itself as the flame retardant of choice to achieve UL94 V-0 especially for unfilled polyamide 66. Some of its attributes include cost effectiveness, excellent electrical and mechanical properties, colorability, Non-blooming, low smoke generation, and low corrosivity. It is also a safe material to use from a handling standpoint, as well as in fire situations in compounds, health, safety, and compatible with environment. A good balance between flame-retardant effectiveness and thermal stability of Melamine Cyanurate provides for easy processing at the compounding stage.

Dose Recommended:

Recommended formulations for UL94 V-0 PA:

PA66 92% MCA8%

PA690% MCA 10%

It can be used in rubbers, nylon, epoxy resin, polyester, as well as lubricants and binders.

The formulations may differ from the recommended ones; the data above is only for reference.

Packing and transport information

Packing: In 15KG WPP bag with inner PE bag

1FCL 20#=9.6mt with pallet

Transport: General chemicals

More information and MSDS, please contact us by E-mail: sulichem@suli.com