

KETJENFLEX® 9S

Reactive Plasticizer

AXC.04.05

General Information

KETJENFLEX® 9S is a toluene sulfonamide based reactive plasticizer used in Melamine laminates, Coatings and Adhesives.

Description and Application

KETJENFLEX® 9S is a basic starting material in the preparation of melamine formaldehyde based resins for laminates. KETJENFLEX® 9S imparts post formability, improved gloss, impact resistance, reduced shrinkage and warp of the hardened laminate.

KETJENFLEX® 9S can be used in high and low pressure melamine formaldehyde laminates, urea formaldehyde resins and as reactive plasticizer in epoxy and polyurethane based resins. In addition, systems reacted with KETJENFLEX® 9S show improved resistance to oils, solvents and moisture. KETJENFLEX® 9S has good thermal stability.

Applications include:

- Melamine formaldehyde resins for laminates
- Melamine/urea formaldehyde wood adhesives
- Phenol formaldehyde wood adhesives
- Melamine based coatings
- Epoxy adducts
- Polyurethane coating and adhesives
- Raw material for fluorescent pigments
- Brightening agent for metal plating

Specifications

Active content:	≥ 99.0%
Water content:	≤ 0.3%
Ortho content:	35-45%
Colour *):	≤ 30 Pt/Co

*) 30% in acetone

Physical Properties

Appearance:	White crystalline powder
Melting point:	112°C
AHEW:	171
Degrades at:	187°C
Apparent bulk density:	680-850 kg/m ³
Flash point (open cup):	180°C

Toxicological information

Acute toxicity (oral):	LD50, rat ≥ 2000 mg/kg
Genotoxicity (Amestest):	not mutagenic
Biodegradation:	readily biodegradable

KETJENFLEX® 9S is approved by the U.S. Food and Drug Administration (FDA) according to CFR 21, section:

- 175.105

Packaging

- 25 kg in 3 ply paper bags, 35 on a pallet

Storage

Keep packaging well closed. Store in a cool dry place.

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