

Mesamoll® II

Plasticizers

Description

Phthalate-free general purpose plasticiser with a good gelling behaviour and an exceptional saponification resistance. It is compatible with many types of polymers including PVC, polyurethanes, and rubber. The main difference between Mesamoll® II and Mesamoll® is the former 's reduced volatility.

Chemical Composition

Alkylsulphonic acid ester with phenol (ASE)

CAS Registry Number

70775-94-9 (ASE)

Appearance

Slightly yellowish, clear liquid

Typical Properties*

| Property | Nominal Value | Unit |
|---|------------------------|-------------------|
| Density | approx. 1.055 | g/cm ³ |
| Refraction index 20 °C | approx. 1.50 | # |
| Viscosity 20 °C | approx. 135 | mPa·s |
| Color number | max. 300 | Hazen |
| Water content | max. 0.05 | % |
| Saponification number | partial saponification | mg KOH/g |
| Pour point | -32 | °C |
| Dissolution temperature based on DIN 53 408 | 120 | °C |
| Volatile paraffinic components | max. 0.25 | |

*The analytical data are guide values.



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Application

Mesamoll® II is used as a plasticiser for a wide range of articles based on polyvinyl chloride (PVC), polyurethane (PUR), and rubber (NBR, NR, SBR, SBR/BR, IIR, CR). Mesamoll® II allows the production of AgBB conform articles.

Typical applications are:

1. Polyurethane-based sealing and adhesive systems (one-component and two-component systems) mouldable, easy-to-process sealants for filling or covering joints in structures and parts of buildings.
2. Cleaning: Rinsing and service fluids for polyurethane foaming machinery.
3. Rotational Moulding: Vinyl articles made by rotational casting.
4. Dip Moulding: PVC one way gloves and other articles which are produced by dip moulding.
5. Calendering: Films for different applications such as automotive industry, for tunnel linings and other construction applications, for electrical insulation and adhesive tapes. Because of its good saponification resistance, Mesamoll® II can be used in the production of swimming pool covers, shower curtains.
6. Extrusion: Profiles for the automotive industry, jointing strip, tubing, weathering and alkali-resistant structural profiles, blown film.
7. Injection Moulding: Work boots, technical articles.
8. Coatings (including spreading): Coatings for air-supported structures and tents, occupational and protective clothing, rain-wear, bath mats, expanded film, floorcoverings, wall paper, imitation leather.

Packaging

Road tankers, 1000 kg PE-containers, 240 kg metal drums

Storage conditions

Mesamoll® II should be kept in its tightly sealed original container in a dry place. If stored properly, the product is stable for 2 years.

During storage, Mesamoll® II should not come into contact with iron for prolonged periods since this may cause discoloration of the plasticizer, especially at temperatures above 40 °C. The materials recommended for transport and storage containers are: aluminium, stainless steel (1.4541 resp. 1.4571), iron containers with an oil-resistant coating such as DD coating, tanks in uncoated polyester or, preferably, with an impervious DD coating. As sealants materials should be used which are resistant to Mesamoll® II as Teflon® (DuPont Polytetrafluoroethylene) or Centellen® (Synthetic fibre based, Fa. Hecker Werke GmbH & Co KG). To ensure that MESAMOLL® II can be easily pumped from outdoor tanks even at low temperatures, tanks should be well insulated and/or the plasticiser heated slightly if necessary. Warm water has proved to be a suitable heating medium. Heating coils should be made of aluminium or, if necessary, of stainless steel 1.4571.

Handling

A receiving inspection is recommended. The product should be stored in its tightly sealed original container in a cool, dry place. Once opened, containers should be resealed tightly after removal of product. Consult material



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safety data sheet (MSDS) for additional handling information on Mesamoll® II.

® = registered trade mark

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