

KETJENFLEX® 4

Plasticizer for polyamide

AXC.09.04

General Information

KETJENFLEX® 4 is a benzene sulfonamide based plasticizer used in Polyamide (co)polymers.

Description and Application

KETJENFLEX® 4 is used as a plasticizer in various polyamide plastic formulations. At dosage levels from 8 to 15% KETJENFLEX® 4 readily plasticizes:

- Polyamide 6
- Polyamide 6,6
- Polyamide 11
- Polyamide 12
- Copolymers of polyamide with either polyether, polyurethane and polyester

With its high boiling point of 314°C KETJENFLEX® 4 can be injected during the hot compounding process of polyamide without generating fumes or deposits in the vacuum hoses.

Articles produced of Polyamide/KETJENFLEX® 4 mixtures show good gas barrier properties and low liquid impregnation. KETJENFLEX® 4 will show a minimum of exudation during lifetime of the manufactured part. Applications include:

- Air Brake tubing
- Hydraulic tubing
- Vacuum tubing
- Lubrication hoses
- A/C hoses
- Filaments

Specifications

| | |
|----------------------|-----------------|
| Active content: | ≥ 99.0% |
| Water content: | ≤ 0.1% |
| Colour (as such): | ≤ 20 Pt/Co |
| Acid value: | ≤ 0.2 mg KOH/g |
| Viscosity (at 25°C): | 150 - 180 mPa.s |

Physical Properties

| | |
|-------------------------|------------------------|
| Appearance: | Clear liquid |
| Boiling point (1kPa): | 314°C |
| Flash point (open cup): | 200°C |
| Density: | 1150 kg/m ³ |
| Solubility in water: | Practically insoluble |

Toxicological information

| | |
|-------------------------|-----------------------|
| Acute toxicity (oral): | LD50 rat ≥ 2000 mg/kg |
| Genotoxicity (ametest): | Not mutagenic |
| Biodegradation: | Slowly biodegradable |

Packaging

- 220 kg in coated steel drums, 4 drums (880 kg) on a pallet
- 1000 kg IBC
- Bulk deliveries

Storage

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

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KETJENFLEX® is a registered trademark of Axcentive SARL

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