



Technical data sheet PolyChlor 42 and 45

Description

PolyChlor 42 and PolyChlor 45 are two chemical plasticizers based on medium chain (C14 to C17) paraffins for use in PVC compounding industries. Each contains a different percentage of organic chlorine (refer to the chart below). PolyChlor 42 and PolyChlor 45 are manufactured to the highest quality standards in a modern computer controlled facility in Alexandria, Egypt. Each grade offers excellent plasticizing and flame-resistant properties at attractively low cost. Each is compatible with a wide range of other polymer types and so allows the partial replacement of so-called 'primary' plasticizers. PolyChlor products provide first-class water resistance and low volatility. They are non-toxic and chemically inert.

PolyChlor 42: Contains 40 to 44% chlorine

PolyChlor 45: Contains 45 to 47 % chlorine

Physical characteristics:

Viscous with no odour or very low odour.

	S.G. @ 25°C	Viscosity @25°C
PolyChlor 42	1.1 to 1.15	0.7-1.0 Poise
PolyChlor 45	1.16 to 1.19	1.0-3.5 poise

Colourless to pale yellow (200Hazen max.).

Changes to light brown if exposed to sunlight or elevated temperatures (180°C for 20 minutes).

Flash Point - greater than 210°C.

Typical uses

- For the plasticization of polymers
- To provide flame retarding.
- PVC flooring products
- PVC cables and industrial belts
- PVC extrusions Softening hides and leather
- Metal-working lubricants

Advantages and benefits

- Low cost alternative to so-called primary plasticizers (such as phosphate esters and phthalates)
- Highly compatible with primary plasticizers
- Very effective plasticization of polymers

- Excellent fire-retardant properties which increase in grades with higher chlorine content
- Compatibility with a wide range of polymers
- Non-toxic
- Low volatility
- Chemically inert
- Excellent resistance to water
- Good low temperature performance

Safeguards during use

Always refer to the Material Safety Data Sheet for full information regarding hazards and safeguards. Personnel should be correctly trained in the use of PolyChlor products before use.

PolyChlor products contain no hazardous ingredients according to EC Directive 93/112/EC.

During use, the product may be slightly irritating to the eyes. Low acute toxicity under normal conditions of use. However, appropriate personal protection should always be used where prolonged or repeated exposure to high levels is anticipated. If personal protection is not used, prolonged exposure to high levels may result in liver and/or kidney damage. Prolonged heating (in excess of 70°C) will result in the liberation of hydrogen chloride.

Skin Avoid contact with skin. Wear suitable chemical-resistant clothing and protective gloves where appropriate or when handling or using the product repeatedly or over prolonged periods.

Eyes avoid contact. Wear protective splash proof goggles wherever necessary.

Inhalation proper ventilation control should always be in place to maintain safe working environments.

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Prior to using the product and if in any doubt about the appropriate procedures that must be in place during the handling and use of PolyChlor products.

Packaging

PolyChlor is available in the following packaging options:

- 210 litre plastic or steel drums
- 1,000 litre IBCs
- 5,000 and 30,000 litre bulk tankers

Storage

The product should be stored in original containers. These should be tightly-closed and secure. They should be situated in cool, dry conditions in a well-ventilated area. Store away from all sources of heat (including direct sunlight). The ambient temperature should not exceed 40oC.

Storage containers should be constructed of lined mild steel. Never store in contact with alkali and alkaline earth metals, iron, aluminium and zinc. Avoid contact with strong oxidizing agents.

Availability and technical advice

International Industrial Chemical Park SAE is based in Alexandria and manufactures high-quality chemical intermediaries in a state-of-the-art, computer-managed factory.

It manufactures products for home and export markets.

PolyChlor is also available in grades 45 and 52. Refer to separate data sheet.

The range of PolyChlor products is available from International Industrial Chemical Park SAE at the address shown below.

Users should ensure that this is the most recent issue of the data sheet- if in doubt, contact the Company and quote the reference number on the sheet. International Industrial Chemical Park SAE products are manufactured to the highest standards and information contained within this data sheet is accurate to the best of its knowledge. No warranty or guarantee is given or implied since the conditions of use are unknown and beyond the Company's control. The user should seek the Company's advice where any doubts about suitability exist. The information contained herein is governed by the company's Conditions of Trade, a copy of which can be found on the Company's website. Further copies are freely available. Users are advised to familiarize themselves with the Company's Conditions of Trade.

For technical advice or to place orders, please contact:

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