



Technical data sheet

PolyChlor 50 - 52 - 56 and 58

Description

PolyChlor 52 and PolyChlor 58 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 52 and PolyChlor 56 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 52: Contains 50 to 54% chlorine
- PolyChlor 58: Contains 56 to 60 % chlorine

Physical characteristics

Viscous with no odour or very low odour.

	S.G. @ 25°C	Viscosity @25°C
PolyChlor 52	1.240 to1.290	10-27 Poise
PolyChlor 58	1.350 to 1.41	30--1300 poise

Colorless to pale yellow (200Hazen max.).

Changes to light brown if exposed to sunlight or elevated temperatures (180oC 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

- Low cost alternative to so-called primary plasticizers (such as phosphate esters and phthalate)
- 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 70oC) 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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Advantages and benefits

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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 liter plastic or steel drums
- 1,000 liter IBCs
- 5,000 and 30,000 liter 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, aluminum 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

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