

## ADD FLEX

### CHLORINATED PARAFFINS SECONDARY PLASTICIZERS

#### Product Description

Chlorinated Paraffins are secondary & economic range of plasticizers & flexibilizer for PVC. Chlorinated Paraffins (CPS) are straight-chain hydrocarbons that have been chlorinated. Chlorinated Paraffins are produced from chlorination of paraffin made by fractions obtained from petroleum distillation. These are classified according to their carbon chain length (ranging from C10~C20) & level of chlorination (ranging from 40%~70%+).

#### Characteristics & Usages

- It is used as plasticizer to impart flexibility and flame retardant property to PVC Compounds, Cables, Footwears, Flooring, Films, and Sheets etc. It is used as economic replacement alongwith Phthalate Plasticizers.
- The usages ranges from across many PVC application areas :
- Cable Insulation Compounds :  
Garden Hoses, Flame Retardant, PVC Flexible Gardening Pipes, Pressure Pipes, Hosings etc., PVC Plastisol Coating/Artificial Leather Cloth Industries, PVC extrusion/other applications, production of Plastic/Rubber, Metal Cutting/Working Fluids.

**CAS No.** 85535-85-9

**Chemical Composition**  $C_xH_{(2x-y+2)}Cl_y$

#### Physical & Chemical Properties

		CP45	CP52
PARTICULARS	TEST METHOD	STANDARD	STANDARD
Appearance	-	Clear to Pale Yellow viscous Liquid	Clear to Pale Yellow viscous Liquid
Chlorine Content %	ISI- 1448-77	45 + 0.2	52 + 0.2
Color in Hazen Units (HU)	ASTM-D-1045-86	100 Max	100 Max
Specific Gravity @ 30 °C	ASTM-D-1045	1.20 + 0.02	1.28 + 0.02
Viscosity @ 27 °C, Poise	ASTM-D-445	0.5 – 5.0	12 – 28
Free Mineral Acidity as mg KOH / gm	KOR/QCD/FP-1.5	0.001 Max	0.001 Max
Free Chlorine, %	ISI-9189-79	NIL	NIL
Heat Stability @ 180 °C for 20 min.	KOR/QCD/FP-1.9	Color changes to dark yellow	Color changes to dark yellow
Thermal Stability after 4 hrs. @ 175 °C	KOR/QCD/FP-1.8	0.10 Max	0.10 Max
Volatile loss @ 180 °C for 4 hrs., % by mass	KOR/QCD/FP-1.7	3.00 Max	3.00 Max
PH Value of 10 % aqueous extract	KOR/QCD/FP- 1.11	6.0 + 0.5	6.0 + 0.5
Refractive Index @ 27 °C	ASTM-D-1807	1.49 + .002	1.59 + .002

*Note: Specific grades of Chlorinated Paraffins can be made on Request.*

#### Packaging

Standard Packaging: 250 Kgs Nett Weight HDPE Drums, MS Drums, 1000 Kgs IBC, 20 MT Flexi Tanks. Specific Packaging options can be arranged as per customer's requirement

#### Safety & Environmental Information

- Avoid contact with skin : may cause irritation and / or skin allergy, wear gloves, avoid spillage.
- Avoid contact with eyes: may cause irritation, wear protective safety glasses.
- Avoid inhaling: may cause irritation in the respiratory tract.
- Extinguishing media: water / sand / dry powder & Carbondioxide foam.

#### Handling & Storage Information

- Indoor storage is recommended. Store in cool, dry, ventilated place.
- Should be handled with normal precautions for liquids. Refer to the material safety data sheet for safety and health information.
- Should be kept away from incompatible materials like PVC, Rubber etc.
- Containers should be kept closed when not in use.