Technical Data Sheet
Allcosil 50

Introduction:

Allcosil 50 is a 50 centistoke polydimethylsiloxane silicone oil.

Uses:

- Release agent.
  Used purely or as a part of a compounded formula **Allcosil 50** provides a non-toxic, non-carbonising mould release for rubber, plastics and metal die-castings.
- Anti-foam agent.
  Very small quantities of the fluid are very effective as a foam control agent, especially in non-aqueous systems.
- Mechanical fluid.
  The very high viscosity-index, the thermal and chemical stability, shear-breakdown resistance and the rubber compatibility as well as the compressibility make this fluid outstanding for mechanical and hydraulic uses.
- Lubricant.
  The fluid provides excellent lubricating properties for most plastic and elastomeric surfaces. Lubricity with metals depends upon the possible combinations such as P.T.F.E., MoS2 and other lubricity improvers.
- In polishes and chemical specialties.
  Silicone oil is used in most automobile and furniture polishes for its ease of application, high gloss with a minimum rubbing and durable water repellent film.
- In electrical and electronic equipment. Because of the excellent dielectric properties silicone oil is widely used as an insulating and damping fluid.

Typical Characteristics:

Product Description			
	Appearance	Clear liquid	
	Odour	Characteristic	
Composition			
	Substance	**% by Weight**	
	Polydimethylsiloxane	100	
Properties			
	Property	**Unit**	**Value**
	Viscosity	cSt	50
	Flashpoint	°C COC	280
	Freezing Point	°C	-55
	Specific gravity @ 25°C		0.959
	Surface tension	mN/m	20.7
	Refractive index		1.402

Features and Benefits:

Features:

- Little change in physical properties over a wide temperature range.
- The fluids are thermally stable at 150°C for extended time intervals.
- Excellent water repellence.
- Low surface tension. The fluid readily wets clean surfaces to impart water repellence and release characteristics.
- Low toxicity.

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Benefits:

- Good foam builder
- Imparts soft silky feel to the hair
- Ensures smooth wet shaving foams
- Non-irritant to skin

Shelf Life:

Allcosil 50 has an unlimited useful life when stored at ambient temperatures. The product does not freeze and there are no restrictions on storage.

Packaging:

200-kilo, 20-kilo and 5-kilo, non-returnable plastic drums.

Health & Safety:

Detailed advice on the Health & Safety aspects of this product is given in the individual product Safety Data Sheet (SDS), available upon request.

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