Email: info@libertychemical.com
Website: www.libertychemical.com

Liberty CHEMICALS
PERFORMANCE ADDITIVES

PRODUCT INFORMATION DATA SHEET

LIBSTAT - CDA

Libstat - *CDA* is an antistatic agent effective for many thermoplastics especially Polyolefins & Polystyrene.

DESCRIPTION : Oleochemical derivative containing Nitrogen

PROPERTIES : Appearance : Viscous Liquid

Acid Value : 3 Max.

A) POLYOLEFINS :

For Polyolefins, the following concentrations of LIBSTAT – *CDA* display a thorough antistatic effect:

PP	:	0.5%	-	1.0%
LDPE	:	0.2%	-	0.5%
HDPE	:	0.5%	-	1.0%

The concentration required in each case depends upon the method of processing and use. For instance, a smaller concentration is required for polyethylene sheeting than blown bottles.

The decisive factor for good effectiveness is the homogeneous distribution in the polymer, which can be achieved, for example, by simply mixing it with the powdery polyolefin. The resulting mixture is then fed into the processing machines directly or after it has been compressed into granules. The method of first producing granules with a high ANTISTAT concentration and then bringing it up during manufacture to the required antistatic agent content with additive-free granules has also been proved successful.

SURFACE RESISTIVITY		
	HDPE sheets	LDPE sheets
Without antistat	10^{13} ohm	10^{13} ohm
With 0.5 phr LIBSTAT - CDA	10^{9} ohm	10^{10} ohm

B) POLYSTYRENE :

LIBSTAT – *CDA* is recommended for use as an antistatic agent for polystyrene with 0.5% to 1.5%. Since it is also compatible with polystyrene in higher concentrations, the desired content of this antistatic agent can be adjusted with such granules by processing them together with additive-free polystyrene. It should be pointed out, however, that these products have a certain lubricating effect and that this can cause excess lubrication in the extruder with higher concentrations.