Formurea UF 80 /UF85

Urea formaldehyde concentrate (UF 80) / (UF85)

UNN0. 2209

IMDG code (page no): 8176-1

IMCO class: 8

It is an intermediate chemical used for many other derivatives based on urea formaldehyde solution.

Its long storage time, high solid content, proper fluidity, low water content and clearness make it an excellent intermediate compound for chemical / industrial purposes.

Chemical specification

Parameter	Value	Unit
Formaldehyde	56(UF-80) 60 (UF85)	Wt%
Urea	24(UF-80) 25 (UF85)	Wt%
Methanol	0.21 (max)	Wt%
Formic acid	0.01(max)	Wt%
Water	By balance	Wt%
Chlorides	<1	ppm
Iron	<1	ppm
Heavy metals	N.D.	

Physical properties

Parameter	Value	Unit
State	clear viscous liquid	
Odour	pungent	
Density at 20^{0}C	1.3 –1.325	gm/cm^3
Flash point (closed cup)	79 approx	^{0}C
pH (20 ^{0}C)	7 - 8	pH units
Solubility at 20^{0}C	Soluble in water in all proportions	

Major application areas

- Conditioning/ anticaking agent for urea fertilizer.
- Spray coating agent for urea fertilizer.
- Urea formaldehyde liquid resins.
- UF powdered resins.
- UF moulding compounds.
- UFglue/adhesives

Packing , Handling &storage

Packing : * 38 liter HDPE drums
* 250 liter HDPE drums
* 1000 liter HDPE drums
* 20.000 – 25.000 liter isothermal tank containers

Handling : Use of approved respiratory systems, goggles, gloves & suitable clothing is recommended.

Storage : To be stored above 0 ^{0}C to avoid excessive viscosity and gel precipitation and below 45^{0}C to avoid polycondensation for one year . pH of stored UF-80 and UF- 85 needs to be maintained above 6.5 pH units.