

Dustron PC LIG

MATERIAL SPECIFICATION & CHARACTERISTICS

S.No.	Test Properties	Result
01.	Physical Form	Pale Yellowish Colour Liquid
02.	Ionic Character	Anionic / Non-ionic
03.	Molecular Weight	❖ 413 approx (average)
04.	Major Component Ratio	Carbon : 54.5726 Parts
		Oxygen : 30.6223 Parts
		Hydrogen : 09.0954 Parts
		Sulphur : 02.9487 Parts As a sulphated product
		Sodium : 02.1166 Parts As a sodium salt
		Nitrogen : 00.6641_Parts
05.	Active Matter/ Solid Content	72± 2%
06.	Solubility	Easily Soluble with water
07.	Stability	Stable in hard & brackish water
08.	pH	7 ± 1(Neutral)
09.	Corrosion Test in	Non Corrosive
	Comparison with tap water	Improve the life of metal (tanker & accessories of spraying system)
		Metal Result
		Mild Steel - 20% Bronze - 62%
		Copper - 17% Aluminum - 74%
10.	Specific Gravity	1.1± 0.05
11.	Phenol	Nil / Not present
12.	Chloride	Nil / not present
13.	Waste Oil	Nil / Not present
14.	Bio - degradable	Bio - degraded
15.	Hazardous & Toxic Metal	ANYALYTE
		Regulatory Levels mg/L MOEF/CECB/ CIL Limit
		RCRA Limit
		Results with Detection Limit ppm (mg/L)
		Metal
		Arsenic (As)
		5
		0.026
		Barium(Ba)
		100
		Nil
		Cadmium (Cd)
		1
		0.010
		Chromium(Cr)
		5
		Not detected
		Lead (Pb)
		5
		0.046
		Mercury (Hg)
		0.20
		Not detected
		Selenium (Se)
		1
		0.170
		Silver (Ag)
		5
		Not detected

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16.	CO Toxicity	Carbon Monoxide (CO) – not observed approx 130 Deg Centigrade
17.	Effect on Skin	No adverse effect
18.	Effect on Eye	No effect is observed because at normal temperature & pressure no gases was evaporated
19.	Effect on Inhalation	No irritation by inhalation at room temperature
20.	Effect on Plants	No adverse effect on plant
21.	Effect on Earth Worm	No adverse effect on Earth worm
22.	Effect on Aquatic Life	No adverse effect on Pond Fish
23.	Toxicity	Non Toxic, Easily Bio – degradable & Environment Friendly.
24.	Flash Point	More than 180 Deg. Centigrade
25.	Flammability	Non flammable at normal temperature
26.	Flow Characteristic	Free Flowing Liquid above 15 deg Centigrade
27.	Conductivity	Mixing with water shows Ionizing
28.	Surface Tension	28± 3 Dynes / Centimetre on 1:2500 & 5000 Dilution
29.	Wetting Properties	Maximum 95% in 1:2500 Minimum 60% in 1:5000
30.	Penetration in Soils	Minimum 10mm within 5 days consecutive treatment
31.	Agglomeration	Soils are agglomerating from the first day but result is observing from the fourth day with necked eyes after consecutive treatment method. 4mm – by single treatment, according to TGA report.
32.	Coagulation Properties for (- 212 Micron Size Dust) in comparison with water	Minimum Increases – 64%
33.	Strength of the Roads in comparison with water	Minimum Increases – 70%
34.	Impact Strength of Road in comparison with water	Minimum Increases – 50%
35.	Wash ability	Not likely to get washed out easily.
36.	Stability	Eighteen months from the date of manufacturing under storage conditions.
38.	Transportation & Handling of Spills	Do not drop the plastic container from any height & save the container to strike with any harder materials such as stone, iron / metal rods, metal nails.
39.	Container Disposal	Reused after thoroughly washed with water