

AGRO EMULSIFIERS

Product	Composition	Application
RATNASTO – GMO	Glyceryl Mono Oleate	Used as a Vehicle for agro pesticides and insecticides
RATNAPEG-5000	Polyethylene Glycol	Used as agro emulsifiers
RATNA-CO40	Castor Oil 40 EO	Used as emulsifier in agro industry
RATNA-1618-EO16	Myristyl-Stearyl 16EO	Used as agro emulsifiers
RATNA NP10	Nonyl Phenol 8.5/10/13/20EO	Used as agro emulsifiers
RATNA-BS	Butyl Stearate	Used as agro solvent
RATNA-PS40	Polysorbate 40/60/80/20	Used as agro emulsifiers
RATNA PGL-3	Polyglycerol-3	Used in agrochemical formulations
PEG-Lauric ester series	PEG (Mono/Di)Laurate	Widely used as agro-emulsifiers
PEG-Oleic ester series	PEG (Mono/Di)Oleate	
PEG-Stearic ester series	PEG (Mono/Di)Stearate	
PEG-Palmitic ester series	PEG (Mono/Di)Palmitate	
RATNASTO-PGML	Propylene Glycol Mono Laurate	Used as emulsifier and solubilizing agent for agrochemicals
RATNAGRO NE	Ethoxylated Neel oil	Herbal based eco-friendly emulsifier
RATNAGRO PEG series	PEG 200/400/600	Used as diluents (solvent-free)
RATNAGRO GIP SDC	Carbamate (Na)	Broad spectrum economical Biocide/fungicide/algaecide
RATNAGRO GIP KDC	Cartbamate (K)	Broad spectrum economical Biocide/fungicide/algaecide
RATNAGRO NABAM	Carbamate (EDA)	Broad spectrum economical Biocide/fungicide/algaecide

Paper & Pulp Chemicals

NAME	COMPOSITION	APPLICATIONS
PRE TREATMENT CHEMICALS		
Ratnapaper 6040	EO/PO copolymer	Applicable to various process in paper mfg
Ratnapaper 6010	EO/PO copolymer	Non ionic surfactant which act as an antifoam
Ratnapaper G 200	Quaternarized based on Stearamide	Strengthen the pulp
Ratnapaper 229	Non Silicon defoamer	Non Silicon defoamer
Ratnapaper BH	EO/PO copolymer capped with alkyl Mole-cule	Defoamer based on EO/PO--- Eco friendly – Free from Mineral Oil & Silicon
DE – INKING CHEMICALS		
Ratnapaper	Aliphatic Acid Ethoxylates derivative	Recommended for units without floatation units, gives brilliant paper
Ratnapaper	Aliphatic Acid derivative	It has the power of strong detergency and froth formation enabling removal of ink particles from pulp
Ratnapaper	Non ionic, ethoxylates derivative	It has the power of strong detergency and froth formation enabling removal of ink particles from pulp
Ratnapaper	Aliphatic Acid derivative with solvent	It is an excellent de-inking chemical for waste paper having stubborn inks
Ratnapaper	EO/PO Co-Polymer Based	APEO free
SIZING CHEMICALS		
Ratnapaper	Modified rosin Based	Used for high level sizing of papers
Ratnapaper	Based on polyethulene derivative	Specially for craft paper
Ratnapaper	Containing synthetic waxes	Excellent Luster Imparter
DYEING AIDS		
Ratnapaper	Quaternary product	It does not affect absorbency, hence it is ideal for blotting tissue and unsized paper, with acid dyeing
Ratnapaper	Fatty Alcohol Ethoxylates	A versatile leveling and Solubelizing agent in dyeing pastel shades
BLEACHING AIDS		
Ratnapaper	A non-ionic Bleaching Aid	It helps in improving the witness index of the pulp
Ratnapaper	A Non silicate Stabilizer	Maximum utilization of peroxide as it retains the peroxide in the bath

AID FOR IMPROVEMENT IN PAPER SHEET MAKING		
Ratnapaper	Fatty acid derivative	Reduces tackiness on the cylinder. Give soft feeling to paper
Ratnapaper	Fatty acid derivative	with higher Anti static agents to reduces tackiness on the cylinder, Give soft feeling to paper
Ratnapaper	Nitrogenous polymeric	Retention Aid
OTHERS		
Ratnapaper	Based on Carbamates	EFFECTIVE Antimicrobial agent of the control of slimie-forming bacteria paper for Alge & fungi in pulp and paper mill system
Ratnapaper	Blend of non ionic surfactants and amine derivatives	It is a powerful all purpose detergent for felt cleaning (Roller cleaning)