

## FACTORY



### **MAHICKRA CHEMICALS LIMITED**

AS/NZS ISO 9001:2015/ISO 9001:2015  
AS/NZS ISO 14001 :2015/ISO 14001:2015  
GOTS Certified Company

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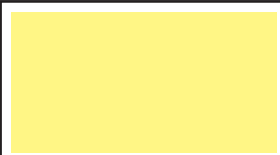






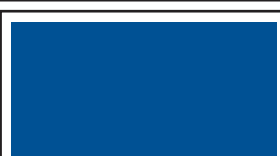
### **MAHICKRA CHEMICALS LIMITED**



**REACTIVE**  
**“M” DYES**  
**“Cynuric Cold Brand”**



REACTIVE DYES

2%	MAHKTIVE 'M' DYES (Cynuric Cold Brand) PRODUCT NAME (C.I. No.)	Solubility		Application Method			Substantivity	Day Light		Washing Fastness			Rubbing Fastness		Perspiration			Dischargeability Hypochlorite Bleaching Fastness			
		30° C G/L	150 Darts/1000 Common Salt	Exhaust Dyeing	Pad - Batch Dyeing	Printing		1/6	1/1	ISO 3		ISO 4		Dry	Wet	Alkali			Acid		
										Effect	Stain	Effect	Stain			Effect	Stain		Effect	Stain	
	RE. YELLOW M8G *Yellow 86	80	50	S	--	--	L	3-4	5-6	4	4	4-5	5	4	3	4-5	5	4	4-5	G	2
	RE. YELLOW M4G *Yellow 22	50	30	S	--	--	M	4-5	4-5	4-5	4-5	4	4-5	4-5	4	4-5	4	4	5	G	1
	RE. YELLOW M4R *Orange 14	90	50	S	--	--	M	3-4	5	4-5	4	5	4-5	4	3	4	4-5	5	4-5	P	2
	RE. ORANGE M2R *Orange 4	100	90	S	--	--	M	3	4	4-5	4	4-5	4	4	3	4-5	4-5	4	4-5	P	2-3
	RE. RED M5B *Red 2	60	45	S	--	--	H	4	4-5	4-5	4	4	4	5	4-5	5	3-4	4	4	F	1
	RE. RED M8B *Red 11	70	50	S	--	--	H	4-5	4-5	4-5	4-5	4-5	4	4-5	4	5	4	4-5	4	P	4
	RE. MAGENTA MB *Violet 13	60	40	S	--	--	H	3-4	3-4	4-5	4	4	4	5	4	5	4-5	4-5	5	F	3
	RE. VIOLET C4R *Violet 24	60	40	S	--	--	H	3-4	3-4	4-5	4	4	4	5	4	5	4-5	4-5	5	F	3
	RE. BLUE M2R *Blue 81	90	75	S	--	--	H	3-4	3-4	4	4-5	4	4-5	4-5	4	4	3-4	4	3-4	P	3-4

REACTIVE “M” DYES “Cynuric Cold Brand”

Cold Brand “M” Type Dyes For Dyeing & Printing

General

Reactive (C) Dyes are used for cotton and viscose. These dyes react with cellulose fibre to produce very brilliant shades. Due to certain leaving group which can undergo nucleophilic displacement with hydroxyl group of cellulose and thus gives us best results to fastness.

Characteristics

1. Suitable for normal temp. dyeing
2. Easy to wash off
3. Good wash fastness
4. Can be used for dyeing & printing
5. Highly economical dyes

Dyeing Process Of 'C' Cold Dyes

Jigger dyeing process (Normal room temp.) (Recommended m/l ratio (1:5 Or 1:10)

1. 1st turn half dye solution
2. 2nd turn half dye solution
3. 3rd turn common salt/ glauber salt
4. 4th turn half common salt/glauber salt
5. 5th turn half soda ash solution
6. 6th turn half soda ash solution
7. 6th to 10th turn cold wash
8. 11th turn cold wash
9. 12th turn hot wash
10. 12th to 13th turn soap at boil
11. 14th turn hot wash
12. 15th cold wash

Salt And Alkali Requirement Table

Reactive 'C' Dyes	Common Salt/ Glauber Salt	Soda Ash
Up to 0.5%	30 gm/l Litre	3 gm/l Litre
0.5 to 2.0%	40 gm/l Litre	4 gm/l Litre
2.0 to 4.0%	50 gm/l Litre	7 gm/l Litre
Above 5.0%	60 gm/l Litre	10 gm/l Litre

Printing With Reactive 'C' Cold Dyes

Dissolved the dyestuff in water. Add urea and start stirring. Further add water for complete dispersion. Add resist salt (Pre dissolved), Add thickening agent and make a uniform paste. Just before printing, add soda Bi-carb (Pre dissolved) in the above ready paste. Print out the fabric with this paste and dry it steam in ager for 10 to 15 minutes. Wash out with cold water and then boil water and then with soap - hot - wash - cold - wash and dry it.

NB : In cold brand, paste can not be stored after addition of alkali.

Preparation of Printing Paste

Dyestuff X to X Part

Water 500 to 525 Part

Urea 40 to 50 Part

Resist salt 8 to 10 Part

Soda Bi carb 10 to 15 Par

Total volume made 1000 parts with printing paste (thickening)

Silicate Process For Printing

Dissolved required quantity of reactive 'C' cold brand dyes in hot water having temperature of 60°-70°C and check that no prescription remains in it. Filter the solution. Mix the solution with thickening help of stirrer and print out the fabric with ready paste. After dying pad the fabric with highly alkaline 48 TWO - sodium silicate. Keep it in air tight for 20-24 hours. Wash it in continuous water and dry off.

Key to Addrreviations

- ND = Non Dischargeable  
D = Dischargeable  
G = Good  
M = Medium  
F = Fair  
P = Poor  
S = Suitable  
NS = Non Suitable  
LS = Less Suitable  
L = Low (Reactivity)

(The information contained in this SHADE CARD has been provided in good faith and to the best of our knowledge but WITHOUT WARRANTY. Consumers are requested to test the products as to their suitability for any application, use or processing.)