**ACI/BHD/2022-23 DATE: 24/11/2022**

**COLOUR SPECIFICATION “TARTRAZINE”**

EEC No. : E 102

# FD & C No. : Yellow 5

C.I. Name : Yellow 4

C.I. No. : 19140

Synonyms : Food Yellow 4

Einecs : 217-699-5

CAS No. : 1934-21-0

Chemical Formula : C16H9N4Na3O9S2

Chemical Name : Trisodium-5-hydroxy-1-(4-sulfonatophenyl)-4-(4-sulfonatophenylazo)-

H-pyrazole-3-carboxylate

Physical Appearance : Light Orange to Reddish Orange **Powder / Granuals**

Appearance of the Aqueous Solution : Yellow

Wavelength of Max. Absorbance : @426 nm

Absorptivity g.cm / 100ml : 530

Bulk Density (BD) : 60-80g/100ml

Pure Dye Content %( On Dry Basis at 105° C) : Not less than 87%

Loss on Drying At 135°C & Sodium Chloride / Sulfate : Less than 13%

Water Insoluble Matter : Less than 0.2%

Ether Extractable Matter : Less than 0.2%

Subsidiary Colouring Matters : Less than 1%

Organic Compounds other than colouring matters:

Sum of 4-Hydrazinobenzenesulfonic acid,

4-Aminobenzenesulfonic acid, 5-Oxo-1-(4-sulfophenyl)- Less than 0.5 %

2-pyrazoline-3-carboxylic acid, 4,4'-Diazoaminodi

(benzenesulfonic acid), Tetrahydroxysuccinic acid

Unsulfonated Primary Aromatic Amines : Less than 0.01 %

Lead (As “Pb”) : Less than 2 PPM

Arsenic (As “As”) : Less than 3 PPM

Mercury (As “Hg”) : Less than 1 PPM

Cadmium (As “Cd”) : Less than 1 PPM

Heavy Metals : Less than 40 PPM

Solubility : Soluble in water, sparingly soluble in ethanol.

Identification of colouring matters : Passes test

Shelf Life : 3 Years

**Storage Condition**: Dry and cool place, avoid sun light & moisture

**Note: Above Specification As Per EU Regulations No: 231/2012**