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**Cathay Industries Australasia Pty Ltd**  
Sydney ■ Melbourne ■ Brisbane ■ Adelaide ■ Perth  
Member of the Global Cathay Industries Group  
[www.cathayindustries.com.au](http://www.cathayindustries.com.au)

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**Melbourne Office** 18-20 Ventura Place, Dandenong South VIC 3175  
T: (03) 8787 4400 | F: (03) 9702 8738



**VIDHI**  
SPECIALTY FOOD  
INGREDIENTS LIMITED

**COLOURS**  
You Can Trust For  
**Your Food**  
Synthetic Food Colours



**Vidhi Specialty Food Ingredients Ltd., (VSFIL)**, an Institution in Edible Food Colours Technology is in the Business of Manufacturing Edible Colours for Food, Confectionery, Beverages, Pet Food, Cosmetics, Health Care, Pharmaceutical Industries etc for Last 2 Decades.

### How we coloured our growth:

The incorporation of the company was done in January 1994 as **Vidhi International Pvt. Ltd.**, the company dynamics were changed to a public limited company in March 1995 and so it became **Vidhi Dyestuffs Mfg. Ltd. (VDML)**. VSFIL started its journey in the year 1995 with merely a production capacity of 30 M. T. per month which stands at 350 M. T. per month as of today.

**A very recent addition is the natural colours division.**

### Why Trust Our Colour.....

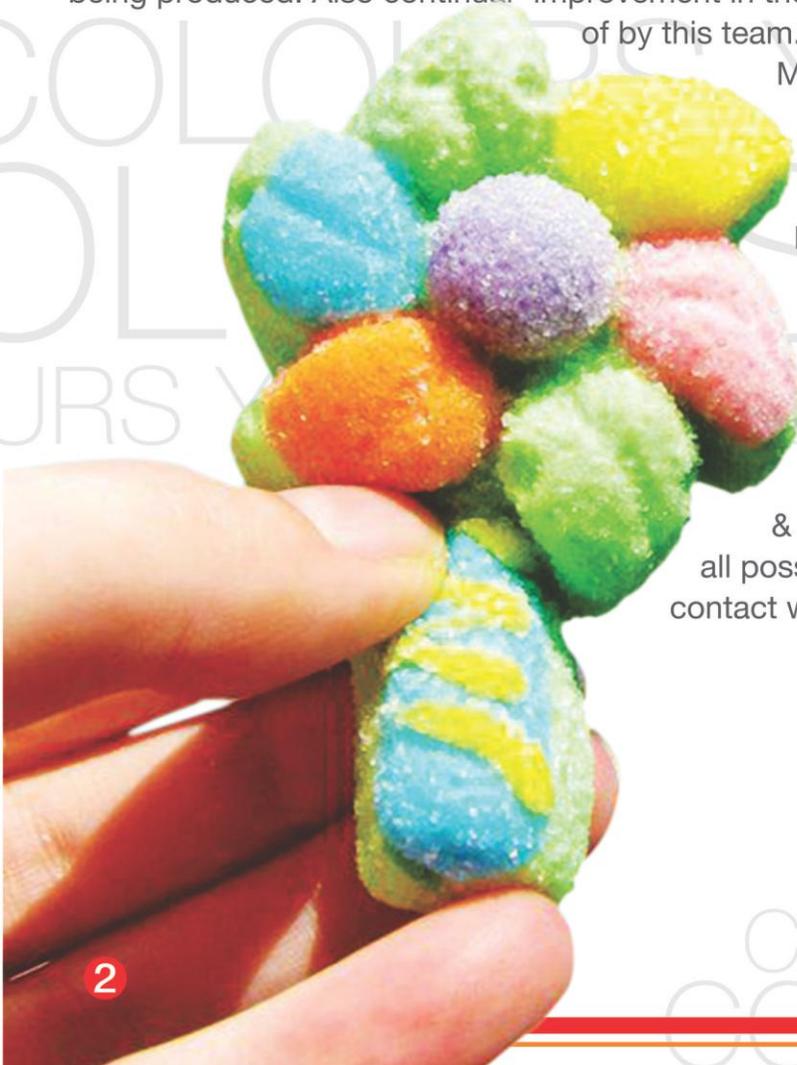
**VSFIL** is the 1st company in the industry to get its quality management system audited by 3rd party in April 2000 and is presently ISO 9001:2008, ISO 22000:2005 & HACCP Certified company. At VSFIL a team of qualified chemists lead by Q. C. & Q. A. managers headed by our Technical Director Mr. Vijay K. Atre is working towards the consistency in quality of all colours being produced. Also continual improvement in the quality, hygienic conditions, packaging, customer service is being taken care of by this team. Mr. Vijay K. Atre has a long Experience of 50 years in the field of Manufacturing of Synthetic Food Colours.

All Colours Manufactured by VSFIL are Kosher & Halal Certified.

The VSFIL Manufacturing Facility has been inspected and found satisfactory by the U. S. FDA inspection team in the year 2001.

With a gamut of Distributors/Sole Selling Agents & Stockists in over 100 Countries spread across all 7 continents ; we assure supply across the globe.

VSFIL is a public limited company listed on both National Stock Exchange & Mumbai Stock Exchange, its state of the art machinery and equipments with all possible atomization makes the operations and manufacturing with minimal contact with human hands keeping away any chance of contamination in the Colours.



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## **VSFIL Food Colours | Complete Range**

### **Primary Water Soluble Synthetic Colours:**

VSFIL offers the full range of **14 W.H.O** approved **Primary Water Soluble Colours** in Powder, Plating Grade Powder and Granular forms.

### **FD&C Certified Colours :**

VSFIL offers the full range of **U. S. FDA** certified **Primary Water Soluble Colours** in **Powder, Plating Grade Powder** and **Granular** forms.

### **Blends of primary Colours:**

These are basically intermixes of 2 or more primary colours to get a desired shade or colour.

### **Drug & Cosmetic Colours:**

VSFIL offers a range of **Colours** used in the **Drug** and **Cosmetic** industry certified by the **U.S FDA**.

### **Lakes:**

VSFIL offers the complete range of Aluminum Lakes in all **14 W. H. O.** Approved Primary water Soluble Colours and **FD&C Certified Colours**. These Colours are used as Pigments for **Surface Coating, Capsules, Dry Snacks, in Food Packaging Material** etc.

**Lake Colours** are Aluminum salts of Water Soluble Dye, Extended on Substratum of Alumina. The Lake Colours are insoluble in water. These are used in Foods, Drugs, Cosmetics, Food Packaging Material, Plastic Films etc. The Lakes are different from basic Colours. Basic Colours exhibit their tinctorial value when dissolved, whereas Lakes are insoluble Colours which give Colouring effect by dispersion.

In general, the Lakes can be made of desired pure dye content. VSFIL has standardized the production of Lakes into 3 different dye content ranges as under :

**Low Dye Content : 11 to 16%**

**Mid Dye Content : 20 to 26%**

**High Dye Content : 35 to 42%**

Dispersion of Lake Colours depends on the particle size of the Lakes. The average particle size of the Lakes offered by VSFIL is 7 Microns.

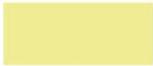


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COLOUR SHADE	PRODUCT	C.I.NO.	F.D.&C. NO.	E.N.O.	PURE DYE CONTENT (MIN)	WATER INSOLUBLE MATTER	ETHER EXTRACT (MAX)	SUBSIDIARY DYES (MAX)	DYE INTERMEDIATES (MAX)	PRIMARY AROMATIC AMINES (MAX)	MERCURY PPM (MAX)	LEAD PPM (MAX)	ARSENIC PPM MAXIMUM	CADMIUM PPM (MAX)	HEAVY METALS PPM
	<b>QUINOLINE YELLOW</b> Addl. Parameters: 1) Sodium 2-(2-Quionoly) Indan-1,3-Dione Monosulfonate - 15% Max 2) Disodium 2-(2-Quionoly) Indan-1,3 Disulfonate-80% Max 3) Trisodium 2-(2-Quionoly) Indan-1,3-Dione Trisulfonate - 7% Max	47005	-	E 104	70%	0.2%	0.2%	4%	0.5%	0.01%	1	2	3	1	40
	<b>TARTRAZINE</b>	19140	Yellow 5	E 102	85%	0.2%	0.2%	1%	0.5%	0.01%	1	2	3	1	40
	<b>SUNSET YELLOW FCF</b> Addl. Parameters: 1) (Phenylazo)-2-naphthalenol (Sundan 1) - 0.5 mg/kg Max	15985	Yellow 6	E 110	85%	0.2%	0.2%	5%	0.5%	0.01%	1	2	3	1	40
	<b>ERYTHROSINE</b> Addl. Parameters: Fluorescein - 20 PPM Max	45430	Red 3	E 127	87%	0.2%	0.2%	4%	0.5%	0.01%	1	2	3	1	40
	<b>PONCEAU 4R</b>	16255	-	E 124	80%	0.2%	0.2%	1%	0.5%	0.01%	1	2	3	1	40
	<b>ALLURA RED</b>	16035	Red 40	E 129	85%	0.2%	0.2%	3%	1.5%	0.01%	1	2	3	1	40
	<b>CARMOISINE</b>	14720	-	E 122	85%	0.2%	0.2%	2%	0.5%	0.01%	1	2	3	1	40
	<b>AMARNATH</b>	16185	-	E 123	85%	0.2%	0.2%	3%	0.5%	0.01%	1	2	3	1	40
	<b>CHOCOLATE BROWN HT</b>	20285	-	E 155	70%	0.2%	0.2%	10%	0.7%	0.01%	1	2	3	1	40
	<b>BRILLIANT BLUE FCF</b> Addl. Parameters: Leuco Base - 5.0% Max	42090	Blue 1	E 133	85%	0.2%	0.2%	6%	1.8%	0.01%	1	2	3	1	40
	<b>PATENT BLUE V</b> Addl. Parameters: Leuco Base - 4.0% Max	42051	-	E 131	85%	0.2%	0.2%	2%	0.5%	0.01%	1	2	3	1	40
	<b>INDIGO CARMINE</b> Addl. Parameters: Subsidiary Dyes - 18.0% Max	73015	Blue 2	E 132	85%	0.2%	0.2%	1%	0.5%	0.01%	1	2	3	1	40
	<b>BLACK IN</b>	28440	-	E 151	80%	0.2%	0.2%	10%	0.8%	0.01%	1	2	3	1	40
	<b>GREEN S</b> Addl. Parameters: Leuco Base - 5.0% Max	44090	-	E 142	80%	0.2%	0.2%	1%	0.4%	0.01%	1	2	3	1	40



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### Stability data at various pH solution (after one week)

Colour	pH 3	pH 5	pH 7	pH 8
Tartrazine	Stable	Stable	Stable	Stable
Sunset Yellow	Stable	Stable	Stable	Stable
Ponceau 4R	Stable	Stable	Stable	Stable
Carmoisine	Stable	Stable	Stable	Stable
Amaranth	Stable	Stable	Stable	Stable
Brilliant Blue	Slight fading	Stable	Very slight fading	Very slight fading
Erythrosine	Precipitate	Precipitate	Stable	Stable
Indigo Carmine	Slight fading	Fade	Fade	Fade completely
Allura Red AC	Stable	Stable	Stable	Stable
Quinoline Yellow	Stable	Stable	Stable	Stable
Chocolate Brown HT	Stable	Stable	Stable	Stable
Patent Blue V	Slight fading	Stable	Slight fading	Slight fading
Green S	Slight fading	Stable	Slight fading	Slight fading

### Stability data for common colour

Colour	Light	Heat	Alkali	Fruit Acid	SO <sub>2</sub>
Tartrazine	6	5	2	5	5
Sunset Yellow	5	5	4	4	4
Ponceau 4R	4	4	5	5	3
Carmoisine	6	4	3	5	4
Amaranth	6	5	3	4	3
Brilliant Blue	4-5	5	5	5	5
Erythrosine	3-4	4	3	1	5
Indigo Carmine	2-3	1	1	1	1
Allura Red AC	5-6	5	5	4	4
Quinoline Yellow	6	4	2-3	5	5
Chocolate Brown HT	4	5	4	4	3
Black PN	2	1	1	4	1
Patent Blue V	7	4-5	2	4	3
Green S	3	5	4	2	5

- The above data is based on current knowledge & experience and should be taken as guideline only.
- Stability of colour is also dependent on concentration used.
- Number 1-6 represents lowest-highest degree of stability for heat, alkali, fruit acid & So<sub>2</sub>.
- Number 1-8 represents lowest-highest degree stability for light.

### Stability of colours in common media (after one week)

Colour	1% Sodium Benzoate	1% Ascorbic Acid	25 ppm SO <sub>2</sub>	250 ppm SO <sub>2</sub>
Tartrazine	No noticeable change	No noticeable change	No noticeable change	No noticeable change
Sunset Yellow	No noticeable change	Considerably fades	Appreciably fades	Appreciably fades
Erythrosine	Very slight fading	Insoluble	Insoluble	Insoluble
Brilliant Blue	No noticeable change	Slight fade	No noticeable change	Very slight fading
Indigo Carmine	Slight fade	Considerably fades	Fades completely	Fades completely
Allura Red	No noticeable change	No noticeable change	No noticeable change	No noticeable change

### Solubility data for Common Colour

Colour	Distilled water %	Propylene glycol %	Ethanol %	Glycerine %
Tartrazine	31	06	Traces	18
Sunset Yellow	17	02	Traces	20
Ponceau 4R	30	10	Traces	0.50
Carmoisine	08	02.50	Traces	02.50
Amaranth	18	01.80	Traces	01.50
Brilliant Blue	28	12	15	20
Erythrosine	08	24	20	20
Indigo Carmine	01.50	0.70	Traces	1
Allura Red AC	22	0.50	Traces	3
Quinoline Yellow	14	14	Traces	-
Chocolate Brown HT	20	15	Traces	05
Black PN	08	01	Traces	0.50
Patent Blue V	06	02	Traces	03.50
Green S	15	01.50	Traces	01.50

This above data is obtained by dissolving the colour in hot solvent & allowing the resultant solution to stand for 24hrs. at room temperature

### Alcohol Solubility of Colours

Colour	Alcohol 100%	Alcohol 25%
Tartrazine	-	12.0
Sunset Yellow	-	20.0
Erythrosine	-	08.0
Brilliant Blue	0.15	20.0
Indigo Carmine	-	00.50

### Glycerine Solubility of Colours

Colour	Glycerine 100%		Glycerine 25%	
	25°C	60°C	25°C	60°C
Tartrazine	18.0	20.0	20.0	20.0
Sunset Yellow	20.0	20.0	20.0	20.0
Erythrosine	20.0	14.0	19.0	19.0
Brilliant Blue	20.0	20.0	20.0	20.0
Indigo Carmine	01.0	01.0	1.50	1.50
Allura Red	03.0	20.0	20.0	20.0

### Propylene Glycol Solubility of Colours

Colour	100% Propylene glycol	25% propylene glycol
Tartrazine	5.84	6.9
Sunset Yellow	2.3	6.66
Ponceau 4R	1.0	11.40
Erythrosine	24.0	7.30
Brilliant Blue	12.0	27.0
Allura Red	0.5	11.0
Indigo Carmine	0.7	0.34
Amaranth	2.0	5.30

### Water Solubility of Colours

Colour	2°C	27°C
Tartrazine	5.30	31.0
Sunset Yellow	13.50	17.0
Ponceau 4R	21.40	30.0
Erythrosine	3.40	8.20
Brilliant Blue	16.0	28.0
Allura Red	18.0	26.0
Indigo Carmine	0.80	01.50

**Stability of Colour in Aqueous Acid Media (after one week)**

Colour	10% Citric Acid	10% Acetic Acid
Tartrazine	Stable	Stable
Sunset Yellow	Stable	Stable
Erythrosine	Insoluble	Insoluble
Brilliant Blue	Stable	Stable
Indigo Carmine	Completely fades	Completely fades
Allura Red	Stable	Stable

**Stability of Colours in Aqueous Alkali Media (after one week)**

Colour	10% sodium bicarbonate	10% sodium carbonate	10% ammonium hydroxide	10% sodium hydroxide
Tartrazine	No noticeable change	No noticeable change	No noticeable change	No noticeable change
Sunset Yellow	No noticeable change	No noticeable change	No noticeable change	Slight fading
Erythrosine	No noticeable change	Slight fading	Slight fading	Fades completely
Brilliant Blue	Slight fading	Fades completely	Considerable fading	Fades completely
Indigo Carmine	Fades completely	Fades completely	Fades completely	Yellower at this pH
Allura Red	Slight blue	Appreciably bluer	Appreciably bluer	Much bluer

Disclaimer "The information given herein and otherwise supplied to users is based on our general experience and where applicable, on the results of tests carried out by us on these products. However, because of factors which are outside our knowledge and control which can affect the use of these products, users must rely on their own judgement. We cannot accept any liability for any injury, loss or damage resulting from reliance upon such information supplied by us."



ISO 22000, ISO 9001

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#### OUR LOCATION & FACILITY

Vidhi Specialty Food Ingredients Ltd.(VSFIL) has its manufacturing facility located at Village Roha, District : Raigad in the state of Maharashtra, India spread over a total area of 177000 Sq. Feet with a total Manufacturing Capacity of 350 M.T. a month.

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