



MATERIAL SAFETY DATA SHEET (MSDS)

Information of the substance and of the company

1. Commercial Product

Company
Addresses

Indigo Carmine

Vibfast Colorants
Plot No. C – 1, 91-6, Phase -1,
B/h Bank of India, GIDC Vatva,
Ahmedabad - 382 445, India

Telephone No: -
Fax No: -

+91 - 79 – 2583 0667
+91 – 79 – 2589 3014

Chemical Family(class)
Chemical Name

Indigoid
Disodium 3,3'-dioxo-2,2'-bi-indolyidene-5,5'-
disulphonate

2. Information on Ingredients: -

E. E. C. No E-132
EINECS 212-728-8
CAS No 860-22-0(5,5'isomer)
C. I. No 73015
Molecular Formula $C_{16}H_8N_2O_8S_2Na_2$
Molecular Weight 466.36
According to documentation available is edible dye.

3. Physical and chemical properties: -

Physical State Solid, Fine Powder/Granules
Colour Dark Blue
Odor Odorless
pH value 5-6
Boiling Point Not applicable
Melting Point No sharp melting point observed
Flash Point Not applicable

4. Substance does not having any oxidising property: -

Ignition Temperature Not applicable
Explosion Limit Not applicable
Vapour Pressure Not applicable
Density 0.80
Solubility in water 15 gms/litre

5. Stability & Reactivity: -

Hazardous Reactions No
Hazardous Decomposition Product Not Established
Chemical In Compatibility Strong Reducing Agents, Decolourising Agents, Strong
Acids & Alkalies
Condition To Avoid I) Heating To High Temperature
II) Storage under damp atmosphere



VIBFAST PIGMENTS PVT. LTD.



C-1, 91/6, Phase I, B/h. Bank of India,
G.I.D.C., Vatva, Ahmedabad - 382 445. (India)
Phone : +91-79-3292 0774, 6450 1424 Fax : +91-79-25893014

E-mail : amit@vibgyorchemtex.com
* amit@vibfast.com * amit@vibfastcolour.com
Website : www.vibgyorchemtex.com * www.vibfast.com

Reactivity Data

This material is stable under condition of normal handling and use, but sensitive to moist air.

6. Handling & Storage: -

Handling	Avoid formation of dust
Storage	Keep in closed container at ambient temperature & humidity
Do Not Store Together	Store Colourwise

7. Exposure Controls/Personal Protection: -

TLV	No
Respirator Protection	May be used (In case dust formation particle filter e.g. DIN 3181-21 may be)
Ventilation	Local ventilation capable of minimizing dust emission at the point of use
Eye Protection	Protective glasses may be used
Hand Protection	Rubber gloves may be used wash the hands before and at the end of work with water, soap

8. Hazards Identification: -

Warnings
The usual precautions taken when handling of dyes should be observed.
As the substance is edible dye, no hazardous to water supply.

9. First Aid Measures: -

Eye Contact	Wash eyes with plenty of water for at least 15 minute
Skin Contact	Wash off with plenty of water & soap
Ingestion	Plenty full water to be taken inside, special medical attention may not be necessary

10. Accidental Release Measures: -

After Spillage	Sweep up spilled substance carefully, then clean with water
Absorbent Material	Use clean cotton cloth

11. Disposal Consideration: -

Can be sent to an incineration plant in accordance with local regulations

12. Fire Fighting Measures: -

Extinguishing Media	Use dry chemicals or carbon dioxide CO ₂
Thermal Decomposition	Dangerous decomposition is not anticipated



13. Toxicological Information (In Rats & Mice): -

LD 50 Oral	6000-10000 mg/kg body weight
LD 50 Intraperitoneal	3800-5000 mg/kg body weight
LD 50 skin	No adverse or pathological effect
LD 50 inhalation	Not Known
Eye Irritation	Not irritating to Eye
Dermal Irritation	Not irritating to skin.
Acceptable Daily Intake	Intake
JECFA	0-2.5 mg/kg body weight
EEC	0-2.5 mg/kg body weight

14. Ecological Information: -

Water Hazard	Being an edible dye, Not established
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15. Transport Information: -

Not Hazardous Cargo
Keep separated from hazardous chemicals

16. Regulatory Information: -

Manufactured as per specification set by BIS (India), FAO/WHO (JECFA), Each country has its own laws on coloring of food-stuffs, colorant permitted and their purity standards

Other Information: -

This product should be stored, handled and used in accordance with good industrial hygienic practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of health and safety requirements. It should not therefore be construed as guaranteeing specific properties

For total dye content: requirement within tolerance limit of $\pm 7.5\%$ the declared of value.