

--- FD & C Dyes ---

Specification >>

FD & C Yellow 5 - MATERIAL SAFETY DATA SHEET (MSDS)**Information of the substance and of the company**

Commercial Product	FD & C Yellow 5
Our Code	F80
Synonyms	C.I.Food Yellow #4 FD&C Yellow #5
Chemical Family(class)	Mono azo dye
Chemical Name	Tri-sodium 5-hydroxy-1-(4-Sulfonato phenyl-4-(4-Sulfonato phenylazo) pyrazole-3-carboxylate
Company	Roha Dyechem Ltd, 42,MIDC, Roha Audyogik Vasahat, Roha 402 116. India.
Telephone No	91-22-4945924 (Bombay)
Fax No	91-22-4939795 (Bombay)

Chemical Characterization Information On Ingredients

E.E.C.No.	E-102
EINECS.	217-699-5
CAS No.	19140
C.I.No.	15985
Molecular Formula	$C_{16}H_9N_4Na_3O_9S_2$
Molecular Weight	534.37
According to documentation available is edible dye.	

Physical and chemical properties

Physical State	Solid, Fine Powder/Granules.
Colour	Light Orange.
Odor	Odorless
pH value	6-8
Boiling Point	Not applicable
Melting Point	No sharp melting point observed
Flash Point	Not applicable Substance does not having any oxidising property
Ignition Temperature	Not applicable
Explosion Limit	Not applicable
Vapour Pressure	Not applicable
Density	0.70
Solubility in water	140 gms/litre

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

Handling & Storage

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

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 minimising 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.

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.

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

Accidental Release Measures

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

Disposal Consideration

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

Fire Fighting Measures

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

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	
JECFA	0-2.5 mg/kg body weight
EEC	0-2.5 mg/kg body weight

Ecological Information

Water Hazard Being an edible dye, Not established

Transport Information

Not Hazardous Cargo.

Keep separated from hazardous chemicals.

Regulatory Information

Manufactured as per specification set by BIS (India), FAO/WHO (JECFA). Each country has its own laws on colouring of food-stuffs, colourant 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

Note: All requirement shall be on dry basis.

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

Prepared By: Q.A.MANAGER

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