



MATERIAL SAFETY DATA SHEET

1.0 IDENTIFICATION OF THE SUBSTANCE / PREPARATION OF THE COMPANY/UNDERTAKING

Identification of the substance / preparation	: VAT DYES
Use of substance / Preparation	: Textile Colorant
Company/undertaking Identification	: Atul Limited, Colors Division
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2.0 COMPOSITION / INFORMATION ON INGREDIENTS

A preparation containing vat dyes **or** mixture of Vat dyes

Component and their concentration	: [*]	CAS No. [*]
Product Code No.	: [*]	Symbol : [*]
Hazardous / dangerous ingredient(s) (As per Directive 1999 / 45 / EC)	: None	EINECS No. : [*] IUPAC No. : [*]

3.0 HAZARDS IDENTIFICATION

This health hazard assessment is based on a consideration of the composition of this product.

4.0 FIRST-AID MEASURES

Inhalation	: Remove patient from exposure. Obtain medical attention if ill effects occur.
Skin Contact	: Remove contaminated clothing. Wash skin with water. If Symptoms develop, obtain medical attention. Contaminated clothing should be laundered before reissue.
Eye Contact	: Irrigate promptly with copious amount of clean water. Obtain medical attention.
Ingestion	: Wash out mouth with water and give 200-300 ml. (half a pint) of water to drink. Do not induce vomiting. Obtain medical attention if ill effects occur.
Further Medical Treatment	: Symptomatic treatment and supportive therapy as indicated.

PRODUCT NAME : VAT DYES.

5.0 FIRE-FIGHTING MEASURE

The material may form flammable dust clouds in air.

Extinguishing media : Water spray, foam, dry powder or carbon dioxide.

Fire-fighting Protective equipment : A self-contained breathing apparatus and suitable protective clothing should be worn if involved in fire with other materials.

6.0 ACCIDENTAL RELEASE MEASURES

Protect against dust. Ensure suitable personal protection during removal of spillages. Clear up spillages and transfer to container for disposal. Wash the spillage area clean.

7.0 HANDLING AND STORAGE

Handling & Spillages : Control dust formation. Avoid contact with skin & dyes. Avoid inhalation high concentration of dust.

Incompatible Materials : None

Storage : Keep container tightly closed.

Specific use (Other than 1.0) : None

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

LTEL 8 HR TWA		STEL		Time Std.
ppm	mg/m3	ppm	mg/m3	

Exposure Limit Values :

Exposure Controls : Refer 6.0 and 7.0 above

Wear protective equipment to comply with good occupational hygiene practice.

Respirators : Wear suitable respiratory protective equipment, if exposure to high levels of dust are likely.

Eye Protection : The use of safety goggles is recommended.

Skin Protection : The use of hand gloves and apron is recommended to avoid skin contact.

PRODUCT NAME : VAT DYES**9.0 PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Solid
Color	: *
Odour	: None
pH (Value)	: 7.0-9.0 (10 g/l water)
Boiling Point (°C)	: Not applicable
Melting Point (°C)	: Above 300
Flash Point (°C)	: Not applicable
Flammability	: Not available
Auto Ignition Temp. (°C)	: *
Explosive Properties	: See "Fire-fighting Measure"
Oxidizing Properties	: None known
Vapour Pressure (mm / hg)	: Not applicable
Density (g / ml) / Relative Density	: * (Bulk density)
Solubility (water)	: Dispersible
Solubility (other)	: *
Partition Co-efficient (n-octanol / water)	: *
Evaporation Rate	: *
Vapour Density	: *

10.0 STABILITY AND REACTIVITY

Hazardous Reactions	: None known
Hazardous Decomposition Product(s)	: None known
Conditions to avoid	: None known

11.0 TOXICOLOGICAL INFORMATION

Inhalation	: Dust may be irritant to upper respiratory tract.
Skin Contact	: Unlikely to cause skin irritation.
Eye Contact	: Unlikely to cause eye irritation
Ingestion	: Unlikely to be hazardous if swallowed.
Chronic Effects	: None known
Other Information	: -----

PRODUCT NAME : VAT DYES.

12.0 ECOLOGICAL INFORMATION

This environmental hazard assessment is based on information available on the component of the formulations and information available on similar products.

Persistence and Degradation :

Colour removal (activated sludge test)	: 50-100%
Chemical Oxygen Demand (COD)	: 0.06-2.5 go2/g.
Biological Oxygen Demand (BOD) (BODY 5 DAY)	: 0.01-0.4 go2/g.
LC50 (rainbow trout) (96 hours)	: >100 - >400 mg/l
LD50	: >2000 - >5000 mg/kg
IC 10	: [*]
ECO Toxicity	: [*]
Mobility	: [*]
Bioaccumulative Potential	: Not known
Other Adverse Effect.	: Not known

13.0 DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

14.0 TRANSPORT INFORMATION

Not classified as hazardous for transportation.

15.0 REGULATORY INFORMATION

Not classified as dangerous for supply / use.

16.0 OTHER INFORMATION.

* Information / properties are product specific.

This MSDS is prepared as per commission directive 2001 / 58 / EC dated 27-07-2001.
(2nd Amendment) to 91 / 155 / EEC.

NOVATIC is a trade name of vat dye from Atul Limited.

Information contained herein is based on the present state of our knowledge & experience and is intended to describe our product with respect to possible safety demands. Therefore, does not guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.