



## MATERIAL SAFETY DATA SHEET

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

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

A preparation containing Reactive dyestuff.

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.

Reactive dyes, of which this is one type, have been associated with respiratory sensitization.

### 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.
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. Obtain medical attention if ill effects occur.
Further Medical Treatment	: Symptomatic treatment and supportive therapy as indicated.

**PRODUCT NAME : TULACTIV DYES.**

**Further Medical Treatment**

Cases of respiratory sensitization alleged to be associated with this product have been reported. The evidence available at date of issue of this data sheet is insufficient to classify this product as a respiratory sensitized under the applicable rules of the EEC Dangerous substance legislation. However, care must be taken to limit exposure of operatives to dust, aerosol mist or droplets during handling, by measures such as adequate local exhaust ventilation or suitable respiratory protective equipment. If an individual develops symptoms similar to high fever or asthma, this person should seek a medical opinion. People who have become sensitized or those with chronic chest disease should not handle this type of dye.

**5.0 FIRE-FIGHTING MEASURE**

The material may form flammable dust clouds in air. Take precautionary measures against static discharge. If involved in a fire, it may emit noxious and toxic fumes.

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 : TULACTIV DYES

### 9.0 PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid
Color	: *
Odour	: None
pH (Value)	: 6.5-8.5 ( 10 g/l water )
Boiling Point (°C)	: Not applicable
Melting Point (°C)	: >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 )	: *
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	: Reactive dyes, of which this is one type, have been associated with respiratory sensitization.
Skin Contact	: May cause skin irritation in sensitive individuals..
Eye Contact	: Unlikely to cause eye irritation in man : Oral Median Lethal Dose >5000 mg/kg (rat).
Ingestion	: Unlikely to be hazardous if swallowed.
Chronic Effects	: No information available.
Other Information	: By analogy with a similar substances this material is likely to present a carcinogenic hazard to man.

**PRODUCT NAME : TULACTIV DYES.****12.0 ECOLOGICAL INFORMATION**

The product is soluble in water.

**Persistence and Degradation :**

Colour removal ( activated sludge test )	: 10-25%
Colour removal ( anaerobic sludge digestion test )	: 50-100%
Chemical Oxygen Demand ( COD )	: 0.6-1.6 go2/g
Biological Oxygen Demand ( BOD ) (BODY 5 DAY)	: 0.04-0.5 go2/g.(by calculation)
LC50 (rainbow trout) (96 hours)	: >100 - >400 mg/l
LD50	: >2000 - >5000 mg/kg
IC 10	: >10 mg/l.
ECO Toxicity	: Low toxicity to fish.
Mobility	: [ * ]
Bioaccumulative Potential	: The product has low potential for Bio-accumulation.
Effect on Effluent Treatment	: Test show that the inhibition of aerobic waste Water bacteria is unlikely.
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 / properites are product specifor.

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

TULACTIV is the trade name for Reactive dyes 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.