

MATERIAL SAFETY DATA SHEET.

SECTION 1 - CHEMICAL IDENTIFICATION

PRODUCT NAME : **REACTIVE BLUE 221**
C. I. NAME : **REACTIVE BLUE 221**
CAS NO. : -
SHIPPERS DETAILS : **SPACE INTERNATIONAL**
402-403 SWASTIK CHAMBERS,
C.S.T. ROAD,CHEMBUR, MUMBAI : 400 071, INDIA.
SHIPPING NAME : **SYNTHETIC ORGANIC DYESTUFFS**
General Use : **Textile application**

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Product's Name : **REACTIVE BLUE 221**
General Description : **Reactive Dyes**
Xn (Harmful) : **R 42/43 May cause sensitization by inhalation and skin contact (28-33%)**

SECTION 3 - HAZARD IDENTIFICATION

Inhalation : **Dust may irritate and may cause sensitization**
Eye contact : **Irritant**
Skin Contact : **May cause sensitization**

SECTION 4 - FIRST AID MEASURES

Inhalation : **Remove to a well ventilated area. If distressed seek medical aid.**
Skin : **Wash all contaminated parts with water.**
Eyes : **Rinse with an copious stream of water. Seek medical advise if irritated**
Ingestion : **Consult medical aid immediately, show the pack description.**
Medical Note : **The Material is by all standards non-hazardous. If principle problem is with Stating of adjacent material, particularly in wet conditions.**

SECTION 5 - FIRE FIGHTING MESURES

Extinguishing media : **If involved in a fire use water, dry powder, or CO₂**
Exposure Hazardous : **In case of fire do not breathe the fumes of CO₂ / CO**
Protective equipments : **Wear a suitable respirator and full clothing**

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Respiratory Protection. : **Use Respirator, if necessary use suitable filters Protective Gloves.**
: **Use plastic or rubber gloves while industrial operation.**
Eye Protection : **Proper eye protection should be taken in any type of industrial operation.**
Environmental Protection : **Prevent entry into sewers and watercourses, if such entry has occurred or soil or vegetation has been contaminated advice the police.**
Disposal : **Damp down or mix moist sand and then vacuum or sweep up the place in containers for safe disposal. Containers should be sealed and labeled. Flush away any traces which cannot be recovered by other means with copious amounts of**

water, and detergent if available. Remove container of waste material to disposal site.

SECTION 7 - HANDLING AND STORAGE

Storage	:	Dry cool place in sealed original container.
Ventilation	:	Do not allow dust to remain suspended.
Handling	:	Wear gloves / Goggles / Masks. Keep in containers as supplied.
Transport	:	Transport in tightly closed containers supplied.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	:	No specific exposure limits are currently available for reactive dyestuffs. In the light of the potential for respiratory sensitization it is strongly recommended that exposure is kept minimum.
Exposure Control	:	Ensure adequate ventilation of work areas with extraction if necessary.
Respiratory Protection	:	Use Respirator, if necessary use suitable filter, Dust mask, Protective Gloves.
Hand protection	:	Use plastic or rubber gloves while industrial operation.
Eye Protection.	:	Proper eye protection like safety glasses should be taken in any type of industrial operation.
Protective equipments	:	Safety shower, Eye Bath, Apron, Hand Gloves, Boots, to prevent skin contact

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	BLUE POWDER
Odor	:	Odorless
Melting Point	:	N.A
Boiling Point	:	N.A
Flammability	:	Not Applicable
Auto Flammability (°C)	:	Not Applicable
Bulk Density	:	500 Kg/m ³
Solubility in water	:	Soluble in water
Vapor pressure (mmHg)	:	Not available
Explosive properties	:	There is a possibility of dust explosion, precautionary measures should be taken.

SECTION 10 - STABILITY AND REACTIVITY

Stability	:	Product is stable under normal conditions
Hazardous Decomposition	:	The substance is arising from thermal products Decomposition of product cannot be predicted. Any flames are potentially irritant/toxic and suitable protective equipment should be worn.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute dermal toxicity	:	LD50 > 2,000 mg/kg (rat)
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Irritant effect on skin	:	non-irritant (rabbit)
Irritant effect on eyes	:	non- irritant (rabbit eyes)
Sensitization	:	In a guinea pig did not show a sensitizing effect (OECD 406; GPMT according to MAGNUSSON-KIGMAN). High dust concentration may result in irritation of mucous membranes (eyes or

respiratory tract). Repeat exposure to high dust concentration of some reactive dyestuffs may vary occasionally cause respiratory hypersensitivity.
Remarks : A sensation by this dyestuff has not be observed.
: Test results of a similar composed product

SECTION 12 - ECOLOGICAL INFORMATION

Biodegradability : 25 – 50%
Fish toxicity : Method : batch method
: LC50 > 100mg/l (48h, Leuciscus idus)
Bacteria toxicity : EC50 > 1,000 mg/l
: Test procedure: Respiratory inhibition of activated sludge organisms according to D. brown et al., Chemosphere, 10(3), 245-261 (1981), and confirming to OECD Guidline 209.
Chemical Oxygen Demand (COD) : Approx. 660 mg/g
Remarks : Test results of a similar composed product
Product does not add to AOX – value of the sewage.(DIN EN 1485)
This product contains approx. 2.6% complex bonded nickel.
This product contains approx. 2.0% available nitrogen which can contribute to eutrophication.
This product does not contain phosphates or organ phosphorus compounds.

SECTION 13 - DISPOSAL CONSIDERATIONS

Recovered material and with or unwanted product should be disposed of by land fill or incineration at the authorized site in accordance with local legislation.
Disposal of uncleaned containers : Dispose of as for product

SECTION 14 - TRANSPORT INFORMATION

Remarks : Not classified as dangerous in the meaning of transport regulation.

SECTION 15 - REGULATORY INFORMATION

Not classified as dangerous substance or preparation for supply.
Risk phrases : R 42/43 may cause sensitization by inhalation and skin contact.
Safety phrases : S22. Do not breath dust. S24/25 Avoid contact with skin and eyes. S37/39 wear suitable gloves and eye/face protection. S45 in case of accident or if you feel unwell, seek medical advise immediately.
(show label where possible)

SECTION 16 - OTHER INFORMATION: NOT APPLICABLE
