

# MATERIAL SAFETY DATA SHEET

**ALFA INDUSTRIES**

C-1,91/1,GIDC,Indl.Area,  
Phase-1,Vatva, Ahmedabad-382445,Gujarat,India  
Tel:+91-79-25831496 Fax:+91-79-25835576

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Revision Date: July 19, 2012

Product Name: Reactive Blue MR

## 1. Product and Company Identification

<b>Product Name</b>	Synthetic Organic Dyes For industrial use
<b>C.I.No.</b>	Reactive Blue 4
<b>Manufacturer Information</b>	ALFA INDUSTRIES C-1,91/1,GIDC,Indl.Area,Phase-1, Vatva, Ahmedabad-382445, Gujarat, India
<b>Manufacturer Contact Details</b>	<b>Tel:</b> +91-79-25831496 <b>Fax:</b> +91-79-25835576

## 2. Information on Ingredients

<b>Substance Name</b>	
<b>CAS No.</b>	13324-20-4

## 3. Hazards Identification

### Symptoms Relating to Use

<b>Inhalation</b>	May cause sensitization by inhalation
<b>Skin Contact</b>	Not expected to present a significant skin hazard under anticipated conditions of normal use.
<b>Eye Contact</b>	Not expected to present significant eye contact hazard under anticipated conditions of normal use.
<b>Ingestion</b>	Not expected to present a significant ingestion hazard under anticipated condition of normal use.

## 4. First Aid Measures

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<b>Inhalation</b>	Remove to fresh air
<b>Skin Contact</b>	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water and rinse.
<b>Eye Contact</b>	After contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>Ingestion</b>	Treat Symptomatically

### 5. Fire-Fighting Measures

<b>Extinguishing Media</b>	Water, Spray, Dry Chemical, CO <sub>2</sub> , foam
<b>Special Exposure Hazards</b>	High temperature may liberate toxic gases when mixed with and exposed to an ignition source, dust may burn in the open or explode if confined.
<b>Protection Against Fire</b>	Wear proper protective equipment

### 6. Accidental Release measures

<b>Personal Precautions</b>	Wear suitable protective clothing and gloves
<b>Environmental Precautions</b>	Comply with local regulations for disposal. Notify authorities if product enters sewers or public waters. Avoid (reject) fire fighting water to enter environment.
<b>After Spillage/Leakage</b>	Sweep or shovel spills into appropriate container for disposal

### 7. Handling and Storage

<b>Storage</b>	Keep away from heat. Keep container closed when not in use.
<b>Handling</b>	Handle in accordance with good industrial hygiene

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and safety procedures. Avoid all unnecessary exposure.

### 8. Exposure controls/Personal protection

#### Personal Protection

#### Respiratory Protection

Approved dust or mist respirator should be used if airborne particulate is generated when handling this material.

#### Skin Protection

Gloves

#### Eye Protection

Chemical Goggles or Safety Glasses

#### Ignition

When using, do not eat, drink or smoke

#### Industrial Hygiene

Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapor or dust moisture.

### 9. Physical and chemical properties

#### Appearance

Powder

#### Physical State

Powder

#### Color

Blue

#### Odour

Odorless

#### pH Value

4.5 – 6.5

#### Initial Boiling Point (0° C)

No data available

#### Density (kg/m<sup>3</sup>)

600 – 800

#### Vapor Pressure (hPa)

Not applicable

#### Solubility in Water (g/l)

>100 g/l (25° C)

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Flash Point (0° C)	Not applicable
Auto-ignition Temperature (0° C)	No data available
Explosion Limits-Lower(%)	No data available
Explosion Limits-Upper(%)	No data available

### 10. Stability and Reactivity

Hazardous Decomposition	On exposure to high temperature, may decompose, releasing toxic vapors
Hazardous Reactions	Stable
Hazardous Properties	None under normal conditions
Materials to Avoid	Strong reducing agents. Oxidizing agent

### 11. Toxicological Information

Rat Oral LD50 (mg/kg)	>5000
Rabbit Dermal LD50 (mg/kg)	No data available
Rat Inhalation LC50 (mg/l/4h)	No data available
Dermal Irritation (rabbit)	Not an irritant
Eyes Irritation	Slightly irritant

### 12. Ecological Information

L. ides LC50 (mg/l)	1000 – 48h
WGK Class (Germany)	No data available
Biodegradation (%)	No data available

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### 13. Disposal considerations

#### Disposal

Dispose in a safe manner in accordance with local/national regulations. Completely empty contents of drums before discarding them.

### 14. Transport Information

#### General Information

By Air

### 15. Regulatory Information

#### Symbol (s)

Harmful

#### R Phrase (s)

None

#### S Phrase (s)

None

### 16. Other Information

#### Recommended uses

Restrictions sensitization in some individuals. And it is advisable to avoid breathing aerosol. And dust persons who suffer from asthmatic or breathing problems should not handle this dye.

The contents and format of this MSDS are in accordance with EEC Commission Directive 93/112/EEC

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connected with the handling, storage use or disposal or the product. This MSDS was prepared and is to be used only for this product. If the product is use as a component in another product, this MSDS information may not be applicable.

