

SAFETY DATA SHEET

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1. Identification of the substance/preparation and of the company/undertaking

Product name Yellow Dye

Product code 000002027555012027

Intended use of the substance/preparation

Colorant

Manufacturer, importer, supplier

BNR COATINGS

Dighe Inthal Pada, Ganesh Galli,

R.No 315, Thane Ballapur Road,

Navi Mumbai – 400 708

Telephone

Emergency telephone +9122 28823688

2. Composition/information on ingredients

Chemical characterization

mixture of solvents and Organic Complex

Hazardous components

Substances presenting a health or environmental hazard within the meaning of the DSD 67/548/EEC incl. 29. ATP

EC-No.	Cas-No.	Chemical Name	Concentration	Classification
203-905-0	111-76-2	2-butoxyethanol	85 < 90 %	Xn ; R20/21/22 Xi ; R36/38
		Organic complex	12 < 15 %	

3. Hazards identification

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Human health hazards

Classification : - Harmful - Irritant

Harmful by inhalation, in contact with skin and if swallowed. Irritating to respiratory system.

Special hazard instructions for humans and environment

None known.

4. First aid measures

General advice

When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.

Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

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Eye contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting. Keep at rest.

5. Fire-fighting measures

Hazardous combustion products

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

Fire and Explosion Hazards

no data available

Suitable extinguishing media

Universal aqueous film-forming foam, carbon dioxide (CO₂), dry chemical, water spray

Extinguishing media which must not be used for safety reasons

high volume water jet

Special Protective Equipment and Fire Fighting Procedures

Wear as appropriate: full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Additional advice

Cool closed containers exposed to fire with water spray.

6. Accidental release measures

Personal precautions

Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8).

Do not inhale vapours

Environmental precautions

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

Methods for cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

7. Handling and storage

Safe handling advice

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Comply with the health and safety at work laws. If material is a coating, do not sand, flame cut, braze or weld dry coating without an appropriate respirator or appropriate ventilation, and gloves.

Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Never use pressure to empty container: container is not a pressure vessel. Always keep in containers of same material as the original one. The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards and regular safe removal of waste materials will minimize the risks of spontaneous combustion and other fire hazards.

Storage

Requirements for storage areas and containers

Observe label precautions. Store between 5 and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. The storage and use of this product is subject to the requirements of the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). Up to 250 litres of such flammable liquids may be stored in a work provided they are kept in a fire-proof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the regulations. Further guidance is contained in the HSE ACOP L135, "Storage of Dangerous Substances."

Advice on common storage

Store separately from oxidizing agents and strongly alkaline and strongly acidic material.

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8. Exposure controls / personal protection

Additional technical information on the plant

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Chemical Name	Glove material	Glove thickness	Break through time
2-butoxyethanol	Viton R	0.7 mm	480 min
	nitrile rubber	0.33 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatrill R glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in chapter 2 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Cleaning solvents or viscosity adjustment thinners require special hand protection, a fluorocarbon rubber glove should be used. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Eye protection

Wear protective eyewear for protection against solvent spatter.

Skin protection

Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

Hygiene measures

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!

Environmental exposure controls

Do not let product enter drains. For ecological information refer to chapter 12.

9. Physical and chemical properties

General information (appearance)

Physical state: liquid Colour: Red

Important health, safety and environmental information

	Value	Method
1. Flash Point	67 C	
2. Auto ignition temperature	238 C	Din 51794
3. Boiling point/range	169-171 C	
4. Lower explosive limit	1.1%	
5. Upper explosive limit	10.6%	
6. Vapour pressure	0.1 hPa	
7. Water solubility	completely miscible	
8. Viscosity (23 C)	Not applicable.	ISO 2431-1993
9. Solvent separation test	< 3%	ADR/RID

Content Of volatile components ---- 100% Basic Vapours pressure > = 0.01 kPa

pH --- Not applicable

Conductivity --- Not applicable

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10. Stability and reactivity

Stability

Stable

Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

Materials to avoid

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

General observations

There are no data available on the product itself. The product is classified and labelled in accordance with EC directives or respective national laws. See sections 2 and 15 for details.

Practical experience

Not applicable.

Toxicity Test Type	Value	Time	Species
2-butoxyethanol			
Oral LD50	1768 mg/kg		rat
Dermal LD50	435 mg/kg		rabbit
Inhalation LC50	450 ppm	4 h	Female rat

12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

Mobility

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Other adverse effects

The preparation was evaluated in accordance with the conventional method of the preparation directive 1999/45/EG and was not classified as environmental dangerous.

13. Disposal considerations

Dispose of in accordance with local regulations.

Product:

Recommendation:

The conversion into energy disposal process is recommended. If this is not possible the hazardous waste must be disposed of by incineration.

Waste Key Number	Description
14 06 03	other solvents and solvent mixtures

Uncleaned packaging:

Recommendation:

Properly emptied containers are to be scrap processed or reconditioned. Improperly emptied containers are considered hazardous waste (waste key number 150110). Waste, including emptied containers, is controlled waste. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Waste classified as hazardous should be disposed of in accordance with the regulations made under the Hazardous Waste (England, Wales and Northern Ireland)

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14. Transport information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

This safety datasheet has been prepared according to British legislation.

Symbol and indicating of hazard

Xn ----- Harmful

R-phrases

R20/21/22 ----- Harmful by inhalation, in contact with skin and if swallowed.

R37 ----- Irritating to respiratory system.

S-phrases

S23 ----- Do not breathe gas/fumes/vapour/spray.

S36/37 ----- Wear suitable protective clothing and gloves.

S38 ----- In case of insufficient ventilation, wear suitable respiratory equipment.

National legislation

The product is labeled according to the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 as amended (CHIP Regulations). The risk associated with the use of this product must be assessed in accordance with the Control of Substances Hazardous to Health (COSHH) Regulations and the Dangerous Substances and Explosive Atmospheres Regulations.

16. Other information

Full text of R phrases with no. appearing in section 2

R20/21/22 ----- Harmful by inhalation, in contact with skin and if swallowed.

R36/38 ----- Irritating to eyes and skin.

Further information

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.

Report version

<u>Version</u>	<u>Changes</u>
1.0	

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