

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product Identification: Dylon Pure Colour 2 Orange, 3 Scarlet, 7 Navy and 8 Black.
Pack Sizes: 20g & 50g PET jars (2 Orange, 3 Scarlet and 7 Navy).
 30g & 50g PET jars (8 Black).
 1.2 Product use: Dyestuff for fabrics.
 1.3 Company Identification: DYLON INTERNATIONAL LTD
 WORSLEY BRIDGE ROAD
 LOWER SYDENHAM
 LONDON SE26 5HD
 UNITED KINGDOM
 TEL (+ 44) 020 8663 4801
 FAX (+ 44) 020 8658 6735
 E-MAIL DylonInt@dylon.co.uk

Applies to forms
 7636 +
 7637 +
 7641
 7642

1.4 Emergency Telephone No: (+ 44) 020 8301 6322

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>EC No:</u>	<u>CAS No:</u>	<u>Concentration Range</u>	<u>Classification</u>
2 Orange				
C.I. Reactive Orange 64	280-744-2	83763-57-9	50 – 60%	Xn: Harmful R42/43
3 Scarlet				
C.I. Reactive Red 123	273-401-3	68959-17-1	55 – 65%	Xn: Harmful R42/43
7 Navy				
C.I. Reactive Blue 225	401-560-2	108624-00-6	75 – 85%	Xi: Irritant R43
C.I. Reactive Black 5	241-164-5	17095-24-8	1 – 5%	Xn: Harmful R42/43
8 Black				
C.I. Reactive Orange 64	280-744-2	83763-57-9	10 – 20%	Xn: Harmful R42/43
C.I. Reactive Blue 225	401-560-2	108624-00-6	30 – 50%	Xi: Irritant R43

3. HAZARDS IDENTIFICATION

xn - HARMFUL: May cause sensitisation by inhalation and skin contact.

4. FIRST AID MEASURES

4.1 Eye Contact with eyes may cause slight irritation.
 Promptly rinse eyes with plenty of water while lifting the lids. Continue to rinse for at least 15 minutes.
 Should any symptoms persist, seek medical attention.

4.2 Skin Contact with skin may cause slight irritation. In persons already sensitized, contact with the dye may cause eczema-like symptoms.
 Remove contaminated clothing. Wash skin thoroughly with soap and water. Should any symptoms persist after washing, seek medical attention showing this safety data sheet.

4.3 Inhalation High dust concentrations may cause inflammation of the mucous membranes.
 Remove exposed person to fresh air. If breathing is impaired give oxygen. Seek immediate medical attention, showing this Safety Data Sheet.

4.4 Ingestion Ingestion may cause diarrhoea, nausea and vomiting.
Never make an unconscious person vomit or drink fluids. If conscious, rinse mouth out with water.
 Drink plenty of water or milk. **Do not induce vomiting.** Seek immediate medical attention, showing this Safety Data Sheet.

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media
- 5.2 Exposure Hazards
- 5.3 Protective Equipment

Use extinguishing media appropriate to surrounding fire.
Dyes may form flammable dust clouds in air.
Wear full protective clothing and self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Observe any warning labels on the container (see Section 15). Take precautions to avoid creating and breathing dust (see Sections 8 & 11). Wear suitable Personal Protective Equipment, including RPE and chemical resistant gloves e.g. Neoprene, Nitrile or PVC.

Do not allow to enter water courses or sewers. Absorb any spilled material immediately onto inert material i.e. sand or vermiculite and transfer into labelled containers for disposal (see Section 13). Small spillages may be flushed away with copious amounts of water.

7. HANDLING AND STORAGE

- 7.1 Handling When handling this product, observe good standards of industrial hygiene to avoid swallowing, inhaling dust and eye or skin contact by the use of suitable personnel protective equipment. It is advisable always to wear hand protection when handling chemicals.
- 7.2 Storage Store in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

- 8.1 Exposure Limit Values, This product contains Reactive dyes which are classified as Respiratory Sensitizers. There is, however, limited or no information which would enable in-house exposure limits to be set. Under these circumstances the inhalation of dust must be avoided or exposure levels reduced to be as low as reasonably practicable. Persons with known respiratory or skin allergies should avoid using or take special precautions when using this product.

8.2 Exposure Controls

Respiratory Protection

None required under normal use. Wear a suitable mask if handling is likely to raise dust. This product should be weighed/filled under conditions of Local Exhaust Ventilation (LEV).

Hand Protection

Wear rubber or chemical resistant gloves.

Eye Protection

None required under normal use. Where large amounts are being handled, wear chemical resistant safety glasses or goggles conforming to BS EN 166.

Skin Protection

Eyebaths should be provided at places where accidental exposure may occur.
None required under normal i.e. domestic use.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance Coloured powder.
- 9.2 Odour Slight.
- 9.3 pH Approx. 7 – 8 (10% solutions.)
- 9.4 Boiling Point/range N/A
- 9.5 Melting Point/range N/A
- 9.6 Flash Point N/A
- 9.7 Flammability N/A
- 9.8 Autoflammability N/A
- 9.9 Explosive properties N/A
- 9.10 Oxidizing Properties N/D
- 9.11 Vapour Pressure N/A
- 9.12 Bulk Density Approx. 0.8 – 1.0 g/ml
- 9.13 Solubility Water - very soluble > 15%

10 STABILITY AND REACTIVITY

Stable under normal and intended uses and applications. Hazardous polymerisation will not occur.

10.1	Conditions to avoid	Moist and humid conditions.
10.2	Materials to avoid	None known
10.3	Hazardous decomposition products	Combustion will produce oxides of carbon, nitrogen and sulphur.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 values: >2000mg /Kg [Oral, rat].

Skin Irritation Non Irritant (though sensitization may occur).

Eye Irritation Non-Irritant.

Other Toxicological Information The above information is calculated and based on data supplied by the manufacturers of the raw materials. This product has not been tested on animals. There is no evidence of carcinogenic or mutagenic effects nor is the product toxic for reproduction.

Toxicological effects of exposure

Ingestion Ingestion of large amounts may cause diarrhoea, nausea and vomiting.

Inhalation Possible irritation of the mucous membranes, coughing and shortness of breath. In persons already sensitized, inhalation of the dyes may cause asthma-like symptoms requiring immediate medical attention.

Eyes May cause slight irritation.

Skin May aggravate pre-existing skin conditions. In persons already sensitized, contact may cause eczema-like symptoms.

12. ECOLOGICAL INFORMATION

C.I. Reactive Orange 64: LC0 >100mg / l (96h, Zebra Fish).
IC50 >100mg / l (Activated Sludge – OECD 209).

C.I. Reactive Red 123: LC0 >100mg / l (48h, Golden Orfe).
IC50 >100mg / l (Pseudomonas Fluorescens).

C.I. Reactive Blue 225: LC0 100mg / l. (96hr – Fish, test species Brachydanio Rerio).
EC0 >100mg / l (Activated sludge bacteria, OECD test)

13. DISPOSAL CONSIDERATIONS

Disposal should be via an authorized waste disposal contractor to an approved waste disposal site, and in accordance with all local and national regulations.

14. TRANSPORT INFORMATION

Proper shipping name Not classified according to transport regulations as hazardous goods.

<u>UN Number</u>	N/A	<u>Symbol</u>	N/A
<u>Hazard Class</u>	N/A	<u>Packing Group</u>	N/A
<u>ADR/RID</u>	N/A	<u>IATA - DGR Limits</u>	N/A

15. REGULATORY INFORMATION

Components which lead to danger classification C.I. Reactive Orange 64, C.I. Reactive Red 123, C.I. Reactive Blue 225 & C.I. Reactive Black 5.

Classified according to Directives 67/548/EEC and 1999/45/EC and their various amendments

Warning Symbols: **Xn**
Warning Words: HARMFUL
Risk Phrases: R42/43 May cause sensitisation by inhalation and skin contact.
Safety Phrases: S2 Keep out of the reach of children.
S22 Do not breathe dust.
S24 Avoid contact with skin.
S37 Wear suitable gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

The retail packs of these products carry a Tactile Warning of Danger in the form of a raised triangle according to the specification set out in BS EN ISO 11683.

16. OTHER INFORMATION

The information in this Safety Data Sheet is given in good faith. The information herein is accurate to the best of our knowledge and represents the most up to date information available to us. Products should be handled and used in accordance with the advice given. The information in this Safety Data Sheet does not constitute an assessment of workplace risks.

Recommended uses and restrictions

This product is intended for use as a dyestuff as per the instruction leaflets/labels.

Key to R Phrases – Section 2

R42/43 - May cause sensitisation by inhalation and skin contact.

R43 - May cause sensitisation by skin contact.

Data Sources

1. Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.
2. Approved Supply List (Seventh edition).
3. Directive 91/155/EEC and its various amendments regarding Safety Data Sheets, up to and including 2001/58/EC.
HSE Guidance Note EH 40/2002, Occupational Exposure Limits (UK).
3. Supplier's M.S.D.S. (various)

Abbreviations: BS = British Standard, CAS = Chemical Abstract Service, C.I. = Colour Index; EC = Effect Concentration (Section 12), IC = Inhibition Concentration, LC = Lethal Concentration, LD = Lethal Dose, M.S.D.S. = Material Safety Data Sheet, N/A = Not applicable or available, N/D = Not determined, OECD = Organisation For Economic Co-Operation And Development, OES = Occupational Exposure Standard, PET = Polyethylene Terephthalate, PPE = Personal Protective Equipment, RPE = Respiratory Protective Equipment.

Revision Details: N/A