

MATERIAL SAFETY DATA SHEET

DYLON

329/1

150 3352

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

1.1 Product Identification: Dylon Cold Water Dyes.
 1.2 Product use: Dyestuff for fabrics.
 1.3 Company Identification: DYLON INTERNATIONAL LTD
 WORSLEY BRIDGE ROAD
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 UNITED KINGDOM
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1.4 Emergency Telephone No: (+ 44) 020 8301 6322

2. COMPOSITION/INFORMATION ON INGREDIENTS (HAZARDOUS COMPONENTS)

<u>Ingredient</u>	<u>CAS No:</u>	<u>Concentration Range</u>
C.I. Reactive Orange 86	57359-00-9	0 - 70%
C.I. Reactive Red 2	17804-49-8	0 - 25%

3. SIGNAL WORDS, STATEMENT OF PRINCIPAL HAZARD(S)

WARNING: EYE IRRITANT. SKIN IRRITANT.

4. FIRST AID MEASURES

- 4.1 Eye Contact with eyes will cause severe irritation, soreness and excessive watering. If eye contact occurs, rinse immediately with tap water for 5 - 10 minutes. If irritation persists, seek medical care.
- 4.2 Skin Contact with skin will cause irritation. Remove contaminated clothing. Wash skin thoroughly with soap and water for 5 minutes. Should any symptoms persist after washing, seek medical attention, showing this sheet.
- 4.3 Inhalation High dust concentrations may cause inflammation of the mucous membranes. Remove exposed person to fresh air. Should any symptoms persist seek medical advice.
- 4.4 Ingestion Ingestion may cause irritation to the digestive tract, diarrhoea and nausea. Rinse mouth out with water. **Do not induce vomiting.** Drink plenty of milk or water. In the event of significant ingestion or if any symptoms persist, seek medical advice.

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media Will not burn - Use extinguishing media appropriate to surrounding fire.
- 5.2 Exposure Hazards This product will partly decompose at approx. 850°C liberating Carbon Dioxide.
- 5.3 Protective Equipment Wear full protective clothing and self-contained breathing equipment.



6. ACCIDENTAL RELEASE MEASURES

Take precautions to avoid creating and breathing dust (see section 8). Transfer any spilled material immediately into labelled containers for disposal (see section 13). Small spillages may be flushed away with copious amounts of water. Where large and/or uncontrolled discharge has occurred and entered water course or sewer, immediately inform local authorities.

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 personal protective equipment (PPE). Use in well ventilated areas. It is always advisable to wear hand protection when handling chemicals.
- 7.2 Storage Store in a cool well-ventilated area.

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

- 8.1 Exposure Limit Values Reactive dyes, of which this product is one type, have been reported as causing instances of respiratory sensitization. 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 i.e. domestic use. Wear a suitable mask if handling is likely to raise dust. This product should be weighed under conditions of Local Exhaust Ventilation (LEV).

Hand Protection Eye Protection

Wear rubber or chemical resistant gloves.

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

Eyebaths should be provided at places where accidental exposure may occur.

Skin Protection

None required under normal i.e. domestic use.

9 PHYSICAL AND CHEMICAL PROPERTIES

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|---|--|
| <u>9.1 Appearance</u> Colored powders. | <u>9.2 Odor</u> Slight. |
| <u>9.3 pH</u> 10 - 12 [1% solution]. | <u>9.4 Boiling Point/range</u> >1400°C |
| <u>9.5 Melting Point/range</u> Approx. 850°C | <u>9.6 Flash Point</u> N/A |
| <u>9.7 Flammability</u> N/A | <u>9.8 Autoflammability</u> N/A |
| <u>9.9 Explosive properties</u> N/A | <u>9.10 Oxidizing Properties</u> N/D |
| <u>9.11 Vapour Pressure</u> N/A | <u>9.12 Bulk Density</u> Approx. 0.8 - 1.00 g/ml |
| <u>9.13 Solubility</u> 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 Will react violently with strong acids, Lithium, Aluminium and Phosphorous Pentoxide.
- 10.3 Hazardous decomposition products Combustion of Dyes will produce oxides of carbon, nitrogen and sulfur.

11. TOXICOLOGICAL INFORMATION

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

Skin Irritation Irritant.

Eye Irritation 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, vomiting and gastro-intestinal perforation.

Inhalation Prolonged contact and/or high dust concentrations may cause inflammation of the mucous membranes.

Eyes Causes severe irritation, soreness and excessive watering.

Skin Causes irritation, soreness and redness. Repeated exposure may result in mild dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity LC50 >100 mg/l. [96hr, Fish].

Bacterial toxicity IC50 >100 mg /l.

No ecological testing has been carried out on this product, the data is based on the properties of the main components.

13. DISPOSAL CONSIDERATIONS

Disposal should be via an authorized waste disposal contractor to an approved waste disposal site, and in accordance with all local 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 86 & C.I. Reactive Red 2

Signal Words:

Statement of Principal Hazards:

Precautions:

First Aid:

WARNING

EYE IRRITANT. SKIN IRRITANT

Avoid prolonged contact with skin. Wash hands immediately after use. When using wear impermeable protective gloves. Keep away from eyes.

KEEP OUT OF REACH OF CHILDREN.

If eye contact occurs, rinse immediately with tap water for 5 - 10 minutes. If irritation persists, seek medical care. If skin contact occurs, wash with soap and water for 5 minutes. For further health information, contact a poison control center.

LABELLING CONFORMS TO ASTM D-4236

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 for fabrics as per the instruction leaflets/labels.

Data Sources

1. Directive 91/155/EEC and its various amendments regarding Safety Data Sheets, up to and including 2001/58/EC.
2. Supplier's M.S.D.S. (various).

Abbreviations: ASTM = American Society for Testing and Materials, CAS = Chemical Abstract Service, C.I. = Colour Index, LC = Lethal Concentration, LD = Lethal Dose, LEV = Local Exhaust Ventilation, M.S.D.S. = Material Safety Data Sheet, N/A = Not applicable or available, N/D = Not determined, OES = Occupational Exposure Standard, PPE = Personal Protective Equipment, TWA = Time Weighted Average.

Revision Details: