



Safety Data Sheet according to Regulation (EC) No 1907/2006

Page 1 of 10

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V001.0

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Replaces version from: -

DYLON Machine Fabric Dye 350 g Plum Red/Burlesque Red

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

DYLON Machine Fabric Dye 350 g Plum Red/Burlesque Red

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:
Fabric Dyes

1.3. Details of the supplier of the safety data sheet

Henkel Ltd.
Betchworth House; 57-65 Station Road
RH1 1DL Redhill
Phone: Tel: 01737 781 300

consumer.response@henkel.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

Skin Irrit. 2
Eye Dam. 1
H315 Causes skin irritation.
H318 Causes serious eye damage.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word:

Danger

Hazard statement:

H315 Causes skin irritation.
H318 Causes serious eye damage.
EUH208 Contains C.I. Reactive Black 5; C.I. Reactive Red 123; C.I. Reactive Blue 225;
C.I. Reactive Orange 64; C.I. Reactive Red 159; C.I. Reactive Yellow 27. May produce an allergic reaction.

Precautionary statement: P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351 IF IN EYES: Rinse cautiously with water for several minutes.
P310 Immediately call a POISON CENTER or doctor.

Contains:
sodium metasilicate

2.3. Other hazards
None if used properly.

SECTION 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

Hazardous substances according to CLP (EC) No 1272/2008:

Hazardous substances CAS-No.	EINECS	REACH-Reg No.	Content	Classification
Sodium carbonate 497-19-8	207-838-8	01-2119485498-19	>= 40- < 60 %	Serious eye irritation 2 H319
C.I. Reactive Red 159 83400-12-8	280-427-9		>= 0,1- < 1 %	Skin sensitizer 1B H317
C.I. Reactive Black 5 17095-24-8	241-164-5		>= 0,1- < 1 %	Skin sensitizer 1 H317 Respiratory sensitizer 1 H334
C.I. Reactive Red 123 68959-17-1	273-401-3		>= 0,1- < 1 %	Skin sensitizer 1B H317 Respiratory sensitizer 1B H334
C.I. Reactive Blue 225 108624-00-6			>= 0,1- < 1 %	Skin sensitizer 1 H317
C.I. Reactive Orange 64 83763-57-9	280-744-2		>= 0,1- < 1 %	Skin sensitizer 1B H317 Respiratory sensitizer 1B H334
C.I. Reactive Yellow 27 75199-00-7	278-108-4		>= 0,1- < 1 %	Skin sensitizer 1B H317

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Move to fresh air. In case of breathing difficulties seek immediate medical advice.

Skin contact:
Rinse with water. Take off all clothing contaminated by the product.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:
Do not induce vomiting, seek medical advice immediately.
Rinse mouth with water, (only if the person is conscious).

4.2. Most important symptoms and effects, both acute and delayed

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Temporary irritation of the skin (redness, swelling, burning).

After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).

After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

4.3. Indication of any immediate medical attention and special treatment needed

After inhalation: No special action.

After skin contact: No special action.

After eye contact: No special action.

After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions.

Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

Extinguishing media which must not be used for safety reasons:

None

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

5.3. Advice for firefighters

Use personal protective equipment and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Ensure adequate ventilation.

If large amounts are released contact the fire service.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically. Rinse away residue with plenty of water.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special measures required if used properly.

Hygiene measures:

Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

Protective equipment only required in case of industrial use or for large packs (not for household packs)

7.2. Conditions for safe storage, including any incompatibilities

Store dry at between +5 and +40°C.
Consider national regulations.

7.3. Specific end use(s)

Fabric Dyes

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters

Valid for
Great Britain

Contains no components with occupational exposure limit values.
Attention: general dust limit value 6 mg/m³ (fine dust concentration)

8.2. Exposure controls

Respiratory protection:
If dust is produced wear P2 mask.

Hand protection:

For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:
Wear tight fitting goggles.

Skin protection:
Protective clothing against chemicals. Observe manufacturer's instructions.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

The following data apply to the whole mixture.

a) Appearance	powder free-flowing red
b) Odor	characteristic
c) Odour threshold	No data available / Not applicable
d) pH (; Conc.: 10 g/l)	11,63
e) Melting point	No data available / Not applicable
f) Initial boiling point and boiling range	No data available / Not applicable
g) Flash point	Not applicable
h) Evaporation rate	No data available / Not applicable
i) Flammability (solid , gas)	No data available / Not applicable
j) Upper / lower flammability or explosive limits	No data available / Not applicable
k) Vapour pressure	No data available / Not applicable
l) Vapor density	No data available / Not applicable
m) Relative density	
Bulk density	900,000 - 1.200,000 g/l
n) Solubility (ies)	soluble in water
o) Partition coefficient: n-octanol/water	No data available / Not applicable
p) Auto-ignition temperature	No data available / Not applicable
q) Decomposition temperature	No data available / Not applicable

- r) Viscosity No data available / Not applicable
s) Explosive properties No data available / Not applicable
t) Oxidising properties No data available / Not applicable

9.2. Other information

Not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

None if used for intended purpose.

10.2. Chemical stability

Stable under normal conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity:**

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sodium carbonate 497-19-8	LD50	2.800 mg/kg	rat	
C.I. Reactive Black 5 17095-24-8	LD50	> 5.000 mg/kg	rat	OECD 401
C.I. Reactive Blue 225 108624-00-6	LD50	> 5.000 mg/kg	rat	
C.I. Reactive Yellow 27 75199-00-7				

Acute dermal toxicity:

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sodium carbonate 497-19-8	LD50	> 2.000 mg/kg	rabbit	
C.I. Reactive Yellow 27 75199-00-7				

Acute inhalative toxicity:

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
C.I. Reactive Yellow 27 75199-00-7					

Skin corrosion/irritation:

Hazardous substances CAS-No.	Conclusion	Exposure time	Species	Method
Sodium carbonate 497-19-8	not irritating	4 h	rabbit	OECD 404
C.I. Reactive Black 5 17095-24-8	not irritating	4 h	rabbit	OECD 404
C.I. Reactive Blue 225 108624-00-6	not irritating	4 h	rabbit	OECD 404

Serious eye damage/irritation:

Hazardous substances CAS-No.	Conclusion	Exposure time	Species	Method
Sodium carbonate 497-19-8	irritating		rabbit	
C.I. Reactive Black 5 17095-24-8	not irritating		rabbit	
C.I. Reactive Blue 225 108624-00-6	not irritating		rabbit	OECD 405

Respiratory or skin sensitization:

Hazardous substances CAS-No.	Conclusion	Test type	Species	Method
C.I. Reactive Black 5 17095-24-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD 406
	ambiguous	Respiratory sensitisation	guinea pig	
C.I. Reactive Blue 225 108624-00-6	sensitising	Guinea pig maximisation test	guinea pig	OECD 406
C.I. Reactive Yellow 27 75199-00-7	sensitising	Guinea pig maximisation test	guinea pig	OECD 406

Germ cell mutagenicity:

Hazardous substances CAS-No.	Result	Type of study	Metabolic activation / Exposure time	Species	Method
Sodium carbonate 497-19-8	negative	bacterial reverse mutation assay (e.g Ames test)	with		
C.I. Reactive Black 5 17095-24-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD 471
C.I. Reactive Black 5 17095-24-8	negative	oral: gavage		mouse	OECD 474
	negative	oral: gavage		hamster, Chinese	OECD 475
C.I. Reactive Blue 225 108624-00-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without		OECD 482

Repeated dose toxicity

Hazardous substances CAS-No.	Result/Value	Route of application	Exposure time / Frequency of treatment	Species	Method
C.I. Reactive Black 5 17095-24-8	NOAEL=250 mg/kg	oral: gavage	90 d/daily	rat	OECD 408

Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
C.I. Reactive Black 5 17095-24-8	NOAEL P = 1.000 mg/kg NOAEL F1 = 1.000 mg/kg	One generation study oral: gavage	10 w	rat	OECD 415

SECTION 12: Ecological information**12.1. Toxicity****Toxicity (Fish):**

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sodium carbonate 497-19-8	LC50	300 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
C.I. Reactive Red 159 83400-12-8	LC50	> 100 mg/l	48 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
C.I. Reactive Black 5 17095-24-8	LC50	> 100 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	>= 100 mg/l	14 d	Oryzias latipes	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
C.I. Reactive Orange 64 83763-57-9	LC50	> 100 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
C.I. Reactive Yellow 27 75199-00-7	LC50	> 100 mg/l	48 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sodium carbonate 497-19-8	EC50	200 - 227 mg/l	48 h	Ceriodaphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
C.I. Reactive Black 5 17095-24-8	EC50	748 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
C.I. Reactive Yellow 27 75199-00-7	EC50	> 100 mg/l	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Toxicity (Algae):

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sodium carbonate 497-19-8	EC50	137 mg/l	5 d	Nitzschia sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)
C.I. Reactive Black 5 17095-24-8	EC50	25,5 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10	5,1 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Biodegradation	Method
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C.I. Reactive Red 159 83400-12-8	not biodegradable	inherently	aerobic	< 10,000000 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
C.I. Reactive Black 5 17095-24-8	not biodegradable	inherently	aerobic	0 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
C.I. Reactive Orange 64 83763-57-9	not biodegradable	inherently	aerobic	< 10 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
C.I. Reactive Black 5 17095-24-8	-4,34				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or vPvB.

12.6. Other adverse effects

Other adverse effects of this product for the environment are not known to us.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

Only completely empty containers are to be disposed of as recoverable materials.

SECTION 14: Transport information

- 14.1. UN number**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**
not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Declaration of ingredients according to Detergent Regulation 648/2004/EC

The preparation does not contain any ingredients to be labelled according to this regulation.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s):

1: New address Belgium