



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

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V001.0

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Replaces version from: -

DYLON Fabric Dye Dark Green

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

1.1. Product identifier

DYLON Fabric Dye Dark Green

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 Sens. 1
H317 May cause an allergic skin reaction.
Eye Irrit. 2
H319 Causes serious eye irritation.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word:

Warning

Hazard statement:

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulation.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Contains:

C.I. Reactive Yellow 27,
C.I. Reactive Blue 225,
C.I. Reactive Blue 203,
C.I. Reactive Black 5

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	>= 70- < 90 %	Serious eye irritation 2 H319
C.I. Reactive Yellow 27 75199-00-7	278-108-4		>= 1- < 5 %	Skin sensitizer 1B H317
C.I. Reactive Blue 225 108624-00-6			>= 1- < 5 %	Skin sensitizer 1 H317
C.I. Reactive Blue 203 84229-70-9	282-468-8		>= 0,1- < 1 %	Skin sensitizer 1B H317 Respiratory sensitizer 1B H334
C.I. Reactive Black 5 17095-24-8	241-164-5		>= 0,1- < 1 %	Skin sensitizer 1 H317 Respiratory sensitizer 1 H334

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 advise.

Skin contact:

Rinse under running water. Remove all contaminated clothing. Consult skin specialist if necessary.

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: Moderate to strong irritation of the skin (redness, swelling, burning), severe burns also possible.

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

After Ingestion: Ingestion may cause pain, burning, swelling and redness in the mouth and throat. Nausea and vomiting may occur.

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

After inhalation: No special action.

After eye contact: No special action.

After ingestion: In case of coughing or shortness of breath immediately call the rescue services.

After skin contact: If irritation persists, seek medical advice.

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.

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:

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

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 dark green
b) Odor	characteristic
c) Odour threshold	No data available / Not applicable
d) pH (; Conc.: 10,0 % product; Solvent: Water)	9 - 11
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 - 1.200 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	not specified
C.I. Reactive Yellow 27 75199-00-7				
C.I. Reactive Blue 225 108624-00-6	LD50	> 5.000 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
C.I. Reactive Blue 203 84229-70-9	LD50	> 5.000 mg/kg	rat	OECD 401
C.I. Reactive Black 5 17095-24-8	LD50	> 5.000 mg/kg	rat	OECD 401

Acute dermal toxicity:

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sodium carbonate 497-19-8	LD50	> 2.000 mg/kg	rabbit	EPA 16 CFR 1500.40 (Method of testing toxic substances)
C.I. Reactive Yellow 27 75199-00-7				
C.I. Reactive Blue 203 84229-70-9	LD50	> 2.000 mg/kg	rat	OECD 402

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 Blue 225 108624-00-6	not irritating	4 h	rabbit	OECD 404
C.I. Reactive Blue 203 84229-70-9	not irritating	24 h	rabbit	OECD 404
C.I. Reactive Black 5 17095-24-8	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	not specified
C.I. Reactive Blue 225 108624-00-6	not irritating		rabbit	OECD 405
C.I. Reactive Blue 203 84229-70-9	not irritating		rabbit	OECD 405
C.I. Reactive Black 5 17095-24-8	not irritating		rabbit	not specified

Respiratory or skin sensitization:

Hazardous substances CAS-No.	Conclusion	Test type	Species	Method
C.I. Reactive Yellow 27 75199-00-7	sensitising	Guinea pig maximisation test	guinea pig	OECD 406
C.I. Reactive Blue 225 108624-00-6	sensitising	Guinea pig maximisation test	guinea pig	OECD 406
C.I. Reactive Blue 203 84229-70-9	not sensitising	Buehler test	guinea pig	OECD 406
C.I. Reactive Black 5 17095-24-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD 406
	ambiguous	Respiratory sensitisation	guinea pig	not specified

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		Ames Test
C.I. Reactive Blue 225 108624-00-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without		OECD 482
C.I. Reactive Blue 203 84229-70-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD 471
	negative	mammalian cell gene mutation assay	with and without		OECD 476
C.I. Reactive Blue 203 84229-70-9	negative	oral: gavage		mouse	OECD 474
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

Repeated dose toxicity

Hazardous substances CAS-No.	Result/Value	Route of application	Exposure time / Frequency of treatment	Species	Method
C.I. Reactive Blue 203 84229-70-9	NOAEL=1.000 mg/kg	oral: gavage	28 ddaily	rat	OECD 407
C.I. Reactive Black 5 17095-24-8	NOAEL=250 mg/kg	oral: gavage	90 ddaily	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 Yellow 27 75199-00-7	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)

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 Yellow 27 75199-00-7	EC50	> 100 mg/l	24 h	Daphnia magna	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)

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
C.I. Reactive Black 5 17095-24-8	not inherently biodegradable	aerobic	0 %	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

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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):

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