



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

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V001.0

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Replaces version from: -

DYLON Machine Fabric Dye 350 g Navy Blue

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

1.1. Product identifier

DYLON Machine Fabric Dye 350 g Navy Blue

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.
Wood Lane End, Hemel Hempstead
HP2 4RQ Hertfordshire
Phone: +44 (0) 1442 278000

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):

Eye Dam. 1
H318 Causes serious eye damage.
Skin Irrit. 2
H315 Causes skin irritation.
Resp. Sens. 1
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1
H317 May cause an allergic skin reaction.
Met. Corr. 1
H290 May be corrosive to metals.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word:

Danger

Hazard statement:	H290 May be corrosive to metals. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. EUH208 Contains C.I. Reactive Red 159. 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. P261 Avoid breathing dust. P280 Wear protective gloves/eye protection. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/... P501 Introduce fully emptied container into recycling / municipal waste stream. P390 Absorb spillage to prevent material damage.
Contains:	C.I. Reactive Black 5, sodium metasilicate

2.3. Other hazards

tactile warning of danger

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
sodium metasilicate 6834-92-0	229-912-9	01-2119449811-37	>= 5- < 10 %	Skin corrosion 1B H314 Corrosive to metals 1 H290 Specific target organ toxicity - single exposure 3 H335
C.I. Reactive Black 5 17095-24-8	241-164-5		>= 1- < 5 %	Skin sensitizer 1 H317 Respiratory sensitizer 1 H334
C.I. Reactive Red 159 83400-12-8	280-427-9		>= 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 under running water. Remove all contaminated clothing. Consult skin specialist if necessary.

Eye contact:

Rinse immediately under running water (for 10 minutes), thereafter seek immediate specialist medical advice.

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: Corrosive, may cause permanent damage to eyes (impairment of vision).

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: Inhalation may cause hyperacidity of the organism with following shortness of breath.

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

After eye contact: No special action.

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

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

Valid for
Great Britain

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

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
blue |
| b) Odor | characteristic |
| c) Odour threshold | No data available / Not applicable |
| d) pH | 11,42 |

(; Conc.: 10 g/l)	
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	not specified
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)
sodium metasilicate 6834-92-0	LD50	> 5.000 mg/kg	rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)

Skin corrosion/irritation:

The mixture was classified based on data of similar tested mixtures following the EU Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures, ECHA Guidance on the application of CLP criteria and A.I.S.E. recommendations. Relevant toxicological information on the substances listed under Section 3 is provided in the following.

The product has not to be classified and labeled as corrosive based on data of an OECD 431 Test with a similar mixture.

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 Black 5 17095-24-8	not irritating		rabbit	not specified

Respiratory or skin sensitization:

Hazardous substances CAS-No.	Conclusion	Test type	Species	Method
sodium metasilicate 6834-92-0	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD 429
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
sodium metasilicate 6834-92-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD 471
	negative	in vitro mammalian chromosome aberration test	with and without		OECD 473
	negative	mammalian cell gene mutation assay	with and without		OECD 476
sodium metasilicate 6834-92-0	negative	oral: feed		mouse	OECD 475
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
sodium metasilicate 6834-92-0	NOAEL=227 - 237 mg/kg	oral: drinking water	3 mdaily	rat	OECD 408
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
sodium metasilicate 6834-92-0	NOAEL P = > 159 mg/kg	multigenerat ion study oral: drinking water	12 w	rat	not specified
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) not specified
sodium metasilicate 6834-92-0	LC50	210 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	
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 Red 159 83400-12-8	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) not specified
sodium metasilicate 6834-92-0	EC50	1.700 mg/l	48 h	Daphnia magna	
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)
sodium metasilicate 6834-92-0	EC0	36 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
	EC50	213 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
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 Black 5 17095-24-8	not biodegradable	inherently	aerobic	0 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
C.I. Reactive Red 159 83400-12-8	not biodegradable	inherently	aerobic	< 10,000000 %	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**

ADR	3253
RID	3253
ADN	3253
IMDG	3253
IATA	3253

14.2. UN proper shipping name

ADR	DISODIUM TRIOXOSILICATE (mixture)
RID	DISODIUM TRIOXOSILICATE (mixture)
ADN	DISODIUM TRIOXOSILICATE (mixture)
IMDG	DISODIUM TRIOXOSILICATE (mixture)
IATA	Disodium trioxosilicate (mixture)

14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

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

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

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