



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

Page 1 of 11

SDS No. : 554993  
V001.0

Revision: 15.02.2017  
printing date: 30.01.2021  
Replaces version from: -

**DYLON Machine Fabric Dye 350 g Intense Black/Velvet Black**

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

#### 1.1. Product identifier

DYLON Machine Fabric Dye 350 g Intense Black/Velvet Black

#### 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):

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

<b>Hazard statement:</b>	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.
<b>Precautionary statement:</b>	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 silicate 1344-09-8	215-687-4	01-2119448725-31	>= 5- < 10 %	Skin irritation 2 H315 Serious eye damage 1 H318 Specific target organ toxicity - single exposure 3; Inhalation H335
C.I. Reactive Black 5 17095-24-8	241-164-5		>= 5- < 10 %	Skin sensitizer 1 H317 Respiratory sensitizer 1 H334
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
Di-Na substituted polycycle sulfonate 250688-43-8			>= 1- < 5 %	Serious eye damage 1 H318
C.I. Reactive Yellow 201 27624-67-5			>= 1- < 5 %	Explosives 1.1 H201 Serious eye damage 1 H318 Chronic hazards to the aquatic environment 3 H412

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 under running water (for 10 minutes), thereafter seek immediate specialist medical advise.

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

Contains no components with occupational exposure limit values.  
Attention: general dust limit value 6 mg/m<sup>3</sup> (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 grey
b) Odor	characteristic
c) Odour threshold	No data available / Not applicable
d) pH (; Conc.: 10 g/l)	12,3
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)	Not applicable
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
Sodium silicate 1344-09-8	LD50	3.400 mg/kg	rat	OECD 401
C.I. Reactive Black 5 17095-24-8	LD50	> 5.000 mg/kg	rat	OECD 401
Di-Na substituted polycycle sulfonate 250688-43-8	LD50	> 2.000 mg/kg	rat	not specified
C.I. Reactive Yellow 201 27624-67-5	LD50	> 2.000 mg/kg	rat	not specified

#### 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 silicate 1344-09-8	LD50	> 5.000 mg/kg	rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
sodium metasilicate 6834-92-0	LD50	> 5.000 mg/kg	rat	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
Di-Na substituted polycycle sulfonate 250688-43-8	LD50	> 2.000 mg/kg	rabbit	not specified
C.I. Reactive Yellow 201 27624-67-5	LD50	> 2.000 mg/kg	rabbit	not specified

#### Acute inhalative toxicity:

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sodium silicate 1344-09-8					

#### 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
Sodium silicate 1344-09-8	highly irritating		rabbit	In vitro
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 silicate 1344-09-8	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
sodium metasilicate 6834-92-0	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD 429

**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 silicate 1344-09-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD 473
	negative	mammalian cell gene mutation assay	with and without		OECD 476
	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD 471
Sodium silicate 1344-09-8	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
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

**Repeated dose toxicity**

Hazardous substances CAS-No.	Result/Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Sodium silicate 1344-09-8	NOAEL=2.400 mg/kg	oral: feed	4 w daily	rat	OECD 407
C.I. Reactive Black 5 17095-24-8	NOAEL=250 mg/kg	oral: gavage	90 d daily	rat	OECD 408
sodium metasilicate 6834-92-0	NOAEL=227 - 237 mg/kg	oral: drinking water	3 m daily	rat	OECD 408
Di-Na substituted polycycle sulfonate 250688-43-8	NOAEL=1.000 mg/kg	oral: unspecified		rat	not specified
C.I. Reactive Yellow 201 27624-67-5	NOAEL=1.000 mg/kg	oral: unspecified		rat	not specified

**Reproductive toxicity:**

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Sodium silicate 1344-09-8	NOAEL P = > 159 mg/kg	multigeneration 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
sodium metasilicate 6834-92-0	NOAEL P = > 159 mg/kg	multigeneration study oral: drinking water	12 w	rat	not specified

**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 silicate 1344-09-8	LC50	> 100 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) not specified
sodium metasilicate 6834-92-0	LC50	210 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	not specified
Di-Na substituted polycycle sulfonate 250688-43-8	LC50	> 100 mg/l	96 h		not specified

**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)
sodium metasilicate 6834-92-0	EC50	1.700 mg/l	48 h	Daphnia magna	not specified



**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)
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

**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**

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**

H201 Explosive; mass explosion hazard.  
H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**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