

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Dylon Machine Dye - Velvet Black

01313-2712

**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

**1.4. Emergency telephone number**

Henkel Hemel Hempstead: +44 1442 278000 / 0845 490 0176 (Monday to Friday from 9.00 to 17:00)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 (CLP):**

Met. Corr. 1

H290 May be corrosive to metals.

Skin Corr. 1B

H314 Causes severe skin burns and eye damage.

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.

**2.2. Label elements****Label elements (CLP):****Hazard pictogram:****Signal word:**

Danger

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**Hazard statement:** H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**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.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P390 Absorb spillage to prevent material damage.  
P501 Introduce fully emptied container into recycling / municipal waste stream.

**Contains:**  
sodium metasilicate\*5 H<sub>2</sub>O,  
C.I. Reactive Black 5,  
C.I. Reactive Red 159

### 2.3. Other hazards

Use child-resistant fastening.  
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	>= 50- < 70 %	Serious eye irritation 2 H319
sodium metasilicate*5 H2O 10213-79-3	229-912-9	01-2119449811-37	>= 10- < 20 %	Skin corrosion 1B H314 Specific target organ toxicity - single exposure 3 H335 Corrosive to metals 1 H290
C.I. Reactive Black 5 17095-24-8	241-164-5		>= 1- < 10 %	Skin sensitizer 1 H317 Respiratory sensitizer 1 H334
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
Di-Na substituted polycycle sulfonate 250688-43-8			>= 1- < 5 %	Serious eye damage 1 H318
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**

If large amounts are released contact the fire service.

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.

Do not use packing made of metal.

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.

**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.: 10,0 % product ; Solvent: Water )	11,5
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

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|------------------------------|------------------------------------|
| 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:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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 Guideline 401 (Acute Oral Toxicity)
C.I. Reactive Yellow 201 27624-67-5	LD50	> 2.000 mg/kg	rat	not specified
Di-Na substituted polycycle sulfonate 250688-43-8	LD50	> 2.000 mg/kg	rat	not specified

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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*5 H2O 10213-79-3	LD50	> 5.000 mg/kg	rat	not specified
C.I. Reactive Yellow 201 27624-67-5	LD50	> 2.000 mg/kg	rabbit	not specified
Di-Na substituted polycycle sulfonate 250688-43-8	LD50	> 2.000 mg/kg	rabbit	not specified

**Acute inhalative toxicity:**

No data available.

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sodium carbonate 497-19-8	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
sodium metasilicate*5 H2O 10213-79-3	corrosive			not specified
C.I. Reactive Black 5 17095-24-8	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)



C.I. Reactive Yellow 201 27624-67-5	not irritating		rabbit	not specified
Di-Na substituted polycycle sulfonate 250688-43-8	not irritating		rabbit	not specified

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sodium carbonate 497-19-8	irritating		rabbit	not specified
sodium metasilicate*5 H2O 10213-79-3	corrosive			not specified
C.I. Reactive Black 5 17095-24-8	not irritating		rabbit	not specified

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
sodium metasilicate*5 H2O 10213-79-3	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	not specified
C.I. Reactive Black 5 17095-24-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
C.I. Reactive Black 5 17095-24-8	ambiguous	Respiratory sensitisation	guinea pig	not specified

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	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*5 H2O 10213-79-3	negative	not specified			not specified
C.I. Reactive Black 5 17095-24-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
sodium metasilicate*5 H2O 10213-79-3	NOAEL P > 159 mg/kg			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	rat	OECD Guideline 415 (One- Generation Reproduction Toxicity Study)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
sodium metasilicate*5 H2O 10213-79-3	NOAEL 227 mg/kg			rat	not specified
C.I. Reactive Black 5 17095-24-8	NOAEL 250 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
C.I. Reactive Yellow 201 27624-67-5	NOAEL 1.000 mg/kg	oral: unspecified		rat	not specified
Di-Na substituted polycycle sulfonate 250688-43-8	NOAEL 1.000 mg/kg	oral: unspecified		rat	not specified

**Aspiration hazard:**

No data available.

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

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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)
sodium metasilicate*5 H2O 10213-79-3	LC50	210 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	
sodium metasilicate*5 H2O 10213-79-3	NOEC	> 86,7 mg/l	30 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage 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)
C.I. Reactive Black 5 17095-24-8	NOEC	>= 100 mg/l	14 d	Oryzias latipes	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Di-Na substituted polycycle sulfonate 250688-43-8	LC50	> 100 mg/l	96 h		not specified
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):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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)
sodium metasilicate*5 H2O 10213-79-3	EC50	1.700 mg/l	48 h	Daphnia magna	not specified
C.I. Reactive Black 5 17095-24-8	EC50	748 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**Chronic toxicity to aquatic invertebrates**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
C.I. Reactive Black 5 17095-24-8	NOEC	1,25 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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*5 H2O 10213-79-3	EC50	213 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
sodium metasilicate*5 H2O 10213-79-3	EC0	36 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)
C.I. Reactive Black 5 17095-24-8	EC10	5,1 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga. Growth Inhibition Test)

### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Sodium carbonate 497-19-8	EC 50	300 mg/l	30 min		not specified
sodium metasilicate*5 H2O 10213-79-3	EC0	1.000 mg/l	30 min		not specified
C.I. Reactive Black 5 17095-24-8	EC 50	> 5.000 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
C.I. Reactive Red 159 83400-12-8	EC0	1.000 mg/l	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)

### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
C.I. Reactive Black 5 17095-24-8	not inherently biodegradable	aerobic	0 %	28 day	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
C.I. Reactive Red 159 83400-12-8	not inherently biodegradable	aerobic	< 10,000000 %	28 day	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)

### 12.3. Bioaccumulative potential

Does not bioaccumulate.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
C.I. Reactive Black 5 17095-24-8	< 11	42,000 day	25,0 °C	Cyprinus carpio	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

**12.4. Mobility in soil**

Hazardous substances CAS-No.	LogPow	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**

Hazardous substances CAS-No.	PBT / vPvB
Sodium carbonate 497-19-8	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
sodium metasilicate*5 H <sub>2</sub> O 10213-79-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

**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
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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****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.

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 - 16