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

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Replaces version from: -

DYLON SPRAY STARCH

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

1.1. Product identifier
DYLON SPRAY STARCH

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
fabric finisher

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):
Flam. Aerosol 2
H223 Flammable aerosol.
H229 Pressurised container: May burst if heated.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Signal word: Warning

Hazard statement:
H223 Flammable aerosol.
H229 Pressurised container: May burst if heated.
EUH208 Contains METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE. 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.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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
Butane, n- (< 0.1 % butadiene) 106-97-8	203-448-7	01-2119474691-32	>= 5- < 10 %	Flammable gases 1 H220 Gases under pressure
Propane 74-98-6	200-827-9	01-2119486944-21	>= 1- < 5 %	Flammable gases 1 H220 Gases under pressure H280
Isobutane 75-28-5	200-857-2	01-2119485395-27	>= 1- < 5 %	Flammable gases 1 H220 Gases under pressure H280
Disodium tetraborate, anhydrous 1330-43-4	215-540-4	*	>= 0,1- < 0,25 %	Toxic to reproduction 1B H360FD
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9			>= 1- < 5 PPM	Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Acute toxicity 3; Oral H301 Skin corrosion 1B H314 Skin sensitizer 1 H317 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410

*exempted according to REACH article 2(7) and Annex V. Each starting material of the ionic mixture is registered, as required.

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 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: Temporary 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.

Extinguishing media which must not be used for safety reasons:
Water jet (solvent-containing product).

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.
Cool the packaging with spray water from a protected area. Remove products unaffected by fire from the hazardous area.

Additional information:
Closed containers can explode due to buildup of pressure when exposed to high temperatures., Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
If large amounts are released contact the fire service.
Keep away from sources of ignition and naked flames.
Avoid contact with skin and eyes.
Ensure adequate ventilation.
Danger of slipping on spilled product.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up
Absorb liquid with sand. Collect it in PVC or PE containers

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not reuse packaging for other usages
Do not open by force or throw into fire even after use.
Do not spray against flames or glowing bodies. Keep away from sources of ignition - no smoking.

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

Protect from direct sunlight and temperatures above 50°C. The storage regulations for aerosols apply.
Consider national regulations.

7.3. Specific end use(s)

fabric finisher

SECTION 8: Exposure controls/personal protection

Only relevant for professional/industrial use

8.1. Control parameters

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m^3	Value type	Short term exposure limit category / Remarks	Remarks
BUTANE 106-97-8	750	1.810	Short Term Exposure Limit (STEL):		EH40 WEL
BUTANE 106-97-8	600	1.450	Time Weighted Average (TWA):		EH40 WEL
DISODIUM TETRABORATE, ANHYDROUS 1330-43-4		1	Time Weighted Average (TWA):		EH40 WEL

8.2. Exposure controls

Respiratory protection:
Not needed.

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	aerosol free-flowing colourless
b) Odor	characteristic
c) Odour threshold	No data available / Not applicable
d) pH	Not applicable
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	No data available / Not applicable
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
Do not open by force or throw into fire even after use.
Avoid heating.

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
Butane, n- (< 0.1 % butadiene) 106-97-8				
Propane 74-98-6				
Isobutane 75-28-5				
Disodium tetraborate, anhydrous 1330-43-4	LD50	> 2.500 mg/kg	rat	OECD 401
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LD50	53 mg/kg	rat	

Acute dermal toxicity:

Hazardous substances CAS-No.	Value type	Value	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8				
Propane 74-98-6				
Isobutane 75-28-5				
Na2-tetraborate 1330-43-4	LD50	> 2.000 mg/kg	rabbit	
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LD50	660 mg/kg	rabbit	Not specified

Acute inhalative toxicity:

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	658 mg/l	4 h	rat	
Propane 74-98-6	LC50	619 mg/l	4 h	mouse	
Isobutane 75-28-5					

Skin corrosion/irritation:

Hazardous substances CAS-No.	Conclusion	Exposure time	Species	Method
Disodium tetraborate, anhydrous 1330-43-4	not irritating	4 h	rabbit	

Serious eye damage/irritation:

Hazardous substances CAS-No.	Conclusion	Exposure time	Species	Method
Disodium tetraborate, anhydrous 1330-43-4	not irritating		rabbit	OECD 405

Respiratory or skin sensitization:

Hazardous substances CAS-No.	Conclusion	Test type	Species	Method
Disodium tetraborate, anhydrous 1330-43-4	not sensitising	Buehler test	guinea pig	OECD 406
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	Sensitizing		guinea pig	

Germ cell mutagenicity:

Hazardous substances CAS-No.	Result	Type of study	Metabolic activation / Exposure time	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8	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
Butane, n- (< 0.1 % butadiene) 106-97-8	negative			Drosophila melanogaster	
Propane 74-98-6	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
Propane 74-98-6	negative			Drosophila melanogaster	
Isobutane 75-28-5	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
Isobutane 75-28-5	negative			Drosophila melanogaster	
Disodium tetraborate, anhydrous 1330-43-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD 471
	negative	sister chromatid exchange assay in mammalian cells	with and without		
	negative	mammalian cell gene mutation assay	with and without		OECD 476
Disodium tetraborate, anhydrous 1330-43-4	negative	oral: gavage		mouse	OECD 474

Repeated dose toxicity

Hazardous substances CAS-No.	ResultValue	Route of application	Exposure time / Frequency of treatment	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8		inhalation: gas	28 d	rat	OECD 422
Propane 74-98-6		inhalation: gas	28 d	rat	OECD 422
Isobutane 75-28-5		inhalation: gas	28 d	rat	OECD 422
Disodium tetraborate, anhydrous 1330-43-4	NOAEL=155 mg/kg	oral: feed	2 ydaily	rat	

Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Disodium tetraborate, anhydrous 1330-43-4	NOAEL P = 155 mg/kg NOAEL F1 = 155 mg/kg NOAEL F2 = 155 mg/kg	three-generation study oral: feed		rat	

SECTION 12: Ecological information

12.1. Toxicity

Toxicity (Fish):

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	27,98 mg/l	96 h		
Disodium tetraborate, anhydrous 1330-43-4	LC50	260 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LC50	0,22 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	0,098 mg/l	28 d	Oncorhynchus mykiss	OECD 210 Guideline (fish early lite stage toxicity test)

Toxicity (Daphnia):

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	14,22 mg/l	48 h		
Disodium tetraborate, anhydrous 1330-43-4	EC50	1.770 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
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	7,71 mg/l	96 h		
Isobutane 75-28-5	EC50	7,71 mg/l	96 h		
Disodium tetraborate, anhydrous 1330-43-4	EC50	630 mg/l	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC50	0,048 mg/l	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	0,0012 mg/l	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Biodegradation	Method
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9		aerobic	97 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
	readily biodegradable		> 60 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

Hazardous substances CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method

Isobutane 75-28-5	2,88				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	-0,71 - 0,75				20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC 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 as hazardous waste in compliance with local and national regulations.

Disposal of uncleaned packages:

Dispose of as hazardous waste in compliance with local and national regulations.

SECTION 14: Transport information

14.1. UN number

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

14.3. Transport hazard class(es)

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

14.4. Packing group

ADR	
RID	
ADN	
IMDG	
IATA	

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: (D)
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

Further ingredients	Perfumes Benzyl salicylate preservation agents Methylchloroisothiazolinone and Methylisothiazolinone Propellant: propane/butane

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H360FD May damage fertility. May damage the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic 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