



## SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) 453/2010

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

#### 1.1. Product identifier

Product Name	Themoplastic Dye Sachet. Blue
Product Inclusion	This document covers Thermoplastic Dye Sachet. Blue only.
Container Size	180g

#### 1.2. Relevant identified uses of the substance of mixture and uses advised against

Identified Uses	Used in Formulations, mixing, spraying, rolling, brushing, dosing etc. (SU1, SU5, SU7, SU10, SU11, SU12, SU13, SU16, SU17, SU18, SU19, SU20 & PC1, PC3, PC8, PC9a, PC9b, PC9c, PC12, PC14, PC15, PC18, PC23, PC26, PC27, PC31, PC32, PC35, PC39 & PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC14, PROC19, PROC21, PROC24, PROC7 & ERC1, ERC2, ERC3, ERC5, ERC8a, ERC8f, ERC10a, ERC11a, ERC12a & AC1, AC2, AC4, AC5, AC6, AC7, AC8, AC10, AC13).
Uses advised against	No specific uses advised against are identified.

#### 1.3. Details of the supplier of the safety data sheet

Supplier	Meon Ltd. Railside Northarbour Spur Portsmouth PO6 3TU  +44 (0) 23 9220 0606 mail@meonuk.com
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#### 1.4. Emergency Telephone Number

Emergency telephone	+44 (0) 808 118 1922
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008, (GB CLP).

Not classified.

Classification according to Directive 67/548/EEC 1999/45/EEC, (GB CLP).

Not classified.

#### 2.2. Label Elements

Hazard pictograms	Not applicable.
Signal word	No signal word.
Hazardous component(s) to be indicated on label	
H-statement(s)	No known significant effects or critical hazards.
P-statement(s)	No known significant effects or critical hazards.

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### 2.3. Other hazards

This substance does not meet the criteria for PBT or vPvB.

### SECTION 3: Composition/information on ingredients

SUBSTANCE [ ] MIXTURE [X]

#### Substance name

Silicic acid, aluminium sodium salt, sulfurized.

#### Chemical formula

$\text{Na}_{6-x}[(\text{Al}, \text{Si})_{12}\text{O}_{24}]\cdot 2\text{NaS}_y$

#### Hazardous ingredients

Ingredient	Cas-No: EC No: Reach No:	Classification	Concentration
Ultramarine Blue/ Sodium aluminosulfosilicate	101357-30-6/57455-37-5 309-928-3/611-533-9 -	Not Classified	98.5%(w/w) Typical

#### Impurities

No impurities relevant for classification and labelling.

### SECTION 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

#### 4.1. Description of first aid measures

<b>General advice</b>	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
<b>In case of inhalation:</b>	Assure fresh air breathing. Allow the victim to rest.
<b>In case of skin contact:</b>	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
<b>In case of eye contact:</b>	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
<b>In case of ingestion:</b>	DO NOT induce vomiting. Obtain emergency medical attention.
<b>Self-protection of the first aider:</b>	None.

#### 4.2. Most important symptoms and effects, both acute and delayed

Seek medical attention. Movement of the exposed individual to fresh air is recommended.

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

Symptomatic treatment as required.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use water spray or fog for cooling exposed containers.
<b>Extinguishing media which must not be used for safety reasons</b>	None known.

#### 5.2. Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture</b>	Under fire conditions from ( $T > 450^\circ\text{C}$ ) $\text{SO}_2$ can be released in presence of air.
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#### 5.3. Advice for firefighters

<b>Special precautions for firefighting</b>	Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Special protective equipment for fire-fighters</b>	-

#### 5.4. Further information

Exercise caution when fight chemical fire. Avoid fire fighting water to enter environment.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection	Avoid all unnecessary exposure. Good general ventilation should be sufficient to control worker exposure.
Respiratory protection	Where excessive dust may result, wear approved mask.
Hand protection gloves	In case of repeated or prolonged contact, wear gloves.
Eye protection	Chemical goggles or safety goggles.
Ingestion	When using, do not eat, drink or smoke.

#### 6.2. Environmental precautions

Environmental precautions	Prevent entry into sewers and public waters. Notify authorities if product enters sewers or public waters.
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#### 6.3. Methods and material for containment and cleaning up

Ventilate area. On land, sweep or shovel into suitable containers. Minimize generation of dust.

#### 6.4. Reference to other sections

No information.

#### 6.5. Additional information

No information.

### SECTION 7: Handling and storage

#### 7.1. Precautions on safe handling

Wash hands and other exposed area with mild soap and water before eat, drink or smoke and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep only in original container in a cool, well ventilated place. Keep container closed when not in use. Store away from acids (Not resistant grades).

#### 7.3. Specific end uses

No specific advice for end use available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Occupational exposure limits	10mg/m <sup>3</sup> , 8hr TWA (Total dust) 5mg/m <sup>3</sup> , 8hr TWA(Respirable dust)
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#### 8.2. Exposure controls

Personal protection	Avoid all unnecessary exposure. Good general ventilation should be sufficient to control worker exposure.
Respiratory protection	Where excessive dust may result, wear approved mask.
Hand protection	In case of repeated or prolonged contact wear gloves.
Eye protection	Chemical goggles or safety glasses.
Ingestion	When using, do not eat, drink or smoke.

Environmental exposure controls	No information
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### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

Appearance:	Solid blue powder
Melting point:	>1000°C
Boiling point:	Not applicable
Density:	2.35 g/cm <sup>3</sup> at 25°C
Solubility:	Slightly soluble or insoluble in water.
Flammability:	Non flammable
Explosive property:	Non explosive
Oxidizing property:	Not oxidizing

#### 9.2. Other information

No information.

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

At temperatures above 400°C in presence of air (SO<sub>2</sub>) sulphur dioxide gas can be released. Hydrogen sulphide gas may be released in contact with acids (Not resistant grades).

#### 10.2. Chemical stability

Stable under normal conditions of storage and handling.

#### 10.3. Possibility of hazardous reactions

None.

#### 10.4. Conditions to avoid

Avoid extreme heat, avoid moisture during storage.

#### 10.5. Incompatible materials

Strong acids and vapors of strong acids.

#### 10.6. Hazardous decomposition products

(SO<sub>2</sub>) Sulphur dioxide gas and (H<sub>2</sub>S) hydrogen sulphide gas.

### SECTION 11: Toxicological information

#### Toxicity values

##### Acute toxicity

##### Hazardous ingredients

Name According to EEC	Oral LD50	Dermal LD50	Dermal LD50 (RBT)	Inhale LC50 (RAT)
-	(i)>2000mg/kg (ii)>10000mg/kg	(i)>1000mg/kg (ii)>5000mg/kg		

#### 11.1. Information on toxicological effects

##### Potential acute health effects

Skin irritation	Not irritating
Eye irritation	Not irritating
Sensitization	Not sensitizing
Repeated dose toxicity oral	NOAEL >= 300mg/kg bw/day
Genetic toxicity invitro	Negative
Carcinogenicity	Non carcinogenic
Reproductive toxicity	NOAEL >=1000mg/kg bw/day

### SECTION 12: Ecological information

#### 12.1. Aquatic Toxicity

##### Short term toxicity

Test subject	Species	Short term toxicity	Long term toxicity
Fish	Himedeka(Latipes)	LC50 (96h) > 90 mg/L	In accordance with REACH Regulation 1907/2006, Annex IX, Column 2, long-term tests on fish need only be conducted if the outcome of the Chemical Safety Assessment indicates such a need.
Aquatic invertebrate	Daphnia magma	EC50 (48h) > 21 mg/L	EC50 (21d) = 34 mg/L, NOEC (21d) = 26 mg/L
Test subject	Species	Toxicity	
Aquatic algae	Pseudokirchnerella subcapitata	EC50 (72h) >99 mg/L, NOEC (72h) >99 mg/L	
Sediment	-	The physic-chemical properties of the substance, together with fugacity modeling, indicate that the	

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		substance is not expected to be distributed into sediment. As a result, the risk for this compartment is considered to be low and no information on effects on sediment-dwelling organisms is needed.
<b>Soil macro organisms</b>	-	Based on the physicochemical properties the substance can be expected to have a low potential of absorption. Furthermore, based on studies into the weathering of Zeolite A in natural waters by hydrolysis, forming natural alumosilicates (Cook et al., 1982; endpoint record 5.1.2_003) it can be anticipated that the substance reaching the aquatic and terrestrial compartments with ultimately turn into natural constituents of waters, sediments and soils. Therefore, it is not justified to conduct a short-term toxicity study to soil macroorganisms.

### **Resulting PNEC**

**Water**

PNEC aqua (freshwater): 0.52 mg/L (Assessment factor 50)

**Sediment**

Koc value not applicable. Based on the physicochemical properties the substance can be expected to have a low potential for adsorption.

**Soil**

Koc value not applicable. Based on the physicochemical properties the substance can be expected to have a low potential for adsorption.

### **12.2. Persistence and degradability**

Based on the values described below the substance is not considered as PBT/vPvB.

T1/2 <= 40 days in fresh- or estuarine water

T1/2 <= 120 days in fresh- or estuarine sediment

T1/2 <= 120 days in soil

### **12.3. Bioaccumulative potential**

The substance has a low potential for bioaccumulation (a log Kow < 3) as it is an inorganic substance.

### **12.4. Mobility in soil**

BCF <= 2000L/kg.

### **12.5. Results of PBT and vPvB assessment**

Criteria	Remarks
<b>Persistence</b>	The substance has no adsorption potential expected to sediment and soil.
vBvB	Evaluation
<b>BCF &lt;= 2000 L/kg</b>	No B/Vb criteria are fulfilled for the substance. The substance is not classified as toxic.

### **12.6. Other adverse effects**

None.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General**

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

#### **Waste treatment method**

Prior to implementing land disposal of waste residue (including water sludge), consult local legislation for adequate disposal methods.

Empty container can retain product residues and shall be disposed in accordance with the provisions proposed for the product.

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### SECTION 14: Transport information

#### Transport class

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	-	-	-
14.3 Transport hazard classes	Not classified.	Not classified.	Not classified.
14.2 Description of the goods	-	-	-
14.2 UN proper shipping name	-	-	-
Danger releasing substance	-	-	-
Labels	-	-	-
Category	-	-	-
Factor	-	-	-
Classification Code	-	-	-
Tunnel restriction code	-	-	-
14.5 Environmental hazards	No.	No.	No.
EmS		-	
14.6 Special precautions for user/additional information	Not regulated.	Not regulated.	Not regulated.
Stowage category		-	

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV – List of substances subject to authorization.** Substances of very high concern – Ultramarine Blue is not listed.

**Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.** Restrictions on use – No restrictions.

##### US TSCA

According to the data available, the product is not a regulated product. Ultramarine Blue is the most environment friendly pigment. TSCA Section (8B): CAS No.57455-37-5 is listed on TSCA inventory. Part 73 under §73.50 (color additives approved for use in human food/salt intended for animal feed). Part 73 under §73.2725 (color additives approved for use in cosmetics/externally applied cosmetics including eye area use). Part 178 under §178.3297 (colorants for polymers). Part 177 under §177.2600 (colorants in rubber articles intended for repeated use).

##### US FDA

**Ultramarine blue is cleared in 21 CFR**

##### Others

The substance is listed in;  
 Canadian Environmental Protection Act Domestic Substances List(DSL)  
 Australian Inventory of Chemical Substances (AICS)  
 Japan Hygienic Olefin and Styrene Plastic Association (JHOSPA)  
 CONEG – Developed Model Toxics in Packing Legislation  
 MITI/ENCS (JAPAN)  
 KTCCL/MEO/ECL (KOREAN INVENTORY)  
 Philippines inventory of chemicals and chemical substances (PICCS)  
 Chinese chemical inventory of existing chemical substances (IECSC)  
 NEW-ZEALAND inventory of chemicals (NZIoC)  
 SWITZERLAND chemicals inventory

#### 15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out for this substance. A detailed Chemical Safety Report is available for this substance.

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### SECTION 16: Other information

#### Relevant R- phrases and H -phrases

#### List of Wastes" Acronym & Abbreviation Key:

BMGV Biological Monitoring Guidance Values are given in Table 2 of EH40/2005 Workplace exposure limits.

Sk Can be absorbed through the skin. Dermal absorption may lead to systemic toxicity.

CLP Classification, Labelling & Packaging Regulation

EC European Commission

EU European Union

US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

LTEL Long term exposure limit

STEL Short term exposure limit

OEL Occupational exposure limit

ppm Parts per million

mg/m<sup>3</sup> Milligrams per cubic meter

TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits

VOC Volatile organic compounds

g/l Grams per liter

mg/kg Milligrams per kilogram

N/A Not applicable

LD<sub>50</sub> Lethal dose at 50%

LC<sub>50</sub> Lethal concentration at 50%

EC<sub>50</sub> Half maximal effective concentration

IC<sub>50</sub> Half maximal inhibitory concentration

PBT Persistent bioaccumulative toxic chemical

vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road

RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code

IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978

IBC International Bulk Container

#### Disclaimer

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