Thermoplastic Dye Sachet. Blue

SAFETY DATA SHEET


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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Thermoplastic Dye Sachet. Blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Inclusion</td>
<td>This document covers Thermoplastic Dye Sachet. Blue only.</td>
</tr>
<tr>
<td>Container Size</td>
<td>180g</td>
</tr>
</tbody>
</table>

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, ERC8b, 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

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Meon Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Railside</td>
</tr>
<tr>
<td></td>
<td>Northarbour Spur</td>
</tr>
<tr>
<td></td>
<td>Portsmouth</td>
</tr>
<tr>
<td>PO6 3TU</td>
<td>+44 (0) 23 9220 0606</td>
</tr>
<tr>
<td></td>
<td>+44 (0) 23 9220 0707</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:mail@meonuk.com">mail@meonuk.com</a></td>
</tr>
</tbody>
</table>

1.4. Emergency Telephone Number

| Emergency telephone | +44 (0) 808 118 1922 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008
Not classified.
Classification according to Directive 67/548/EEC 1999/45/EEC
Not classified.

2.2. Label Elements

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal word</td>
<td>No signal word.</td>
</tr>
<tr>
<td>Hazardous component(s) to be indicated on label</td>
<td></td>
</tr>
<tr>
<td>H-statement(s)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>P-statement(s)</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>
Thermoplastic Dye Sachet. Blue

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
Na_{x}[(Al, Si)_{12}O_{24}].2NaS_{y}

Hazardous ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Cas-No:</th>
<th>EC No:</th>
<th>Reach No:</th>
<th>R-Phrases</th>
<th>CLP Hazard Statements</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultramarine Blue/ Sodium aluminosulfosilicate</td>
<td>101357-30-6/57455-37-5</td>
<td>309-928-3/611-533-9</td>
<td></td>
<td></td>
<td></td>
<td>98.5%(w/w) Typical</td>
</tr>
</tbody>
</table>

Impurities
No impurities relevant for classification and labelling.

SECTION 4: First aid measures

Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

General advice
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

In case of inhalation:
Assure fresh air breathing. Allow the victim to rest.

In case of skin contact:
Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

In case of eye contact:
Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

In case of ingestion:
DO NOT induce vomiting. Obtain emergency medical attention.

Self-protection of the first aider:
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

Suitable extinguishing media
Use water spray or fog for cooling exposed containers.

Extinguishing media which must not be used for safety reasons
None known.

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture
Under fire conditions from (T>450°C) SO2 can be released in presence of air.

5.3. Advice for firefighters

Special precautions for firefighting
Do not enter fire area without proper protective equipment, including respiratory protection.

Special protective equipment for fire-fighters

5.4. Further information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Thermoplastic Dye Sachet. Blue

**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.

### 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/m³, 8hr TWA (Total dust)
- 5mg/m³, 8hr TWA (Respirable dust)

#### 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.

### 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/cm³ 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.

### SECTION 10: Stability and reactivity
Thermoplastic Dye Sachet. Blue

10.1. Reactivity
At temperatures above 400°C in presence of air (SO2) 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
(SO2) Sulphur dioxide gas and (H2S) hydrogen sulphide gas.

SECTION 11: Toxicological information

Toxicity values
Acute toxicity

<table>
<thead>
<tr>
<th>Name According to EEC</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Dermal LD50 (RBT)</th>
<th>Inhale LC50 (RAT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(i)&gt;2000mg/kg (ii)&gt;10000mg/kg</td>
<td>(i)&gt;1000mg/kg (ii)&gt;5000mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Test subject</th>
<th>Species</th>
<th>Short term toxicity</th>
<th>Long term toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>Himedeka(Latipes)</td>
<td>LC50 (96h) &gt; 90 mg/L</td>
<td>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.</td>
</tr>
<tr>
<td>Aquatic invertebrate</td>
<td>Daphnia magma</td>
<td>EC50 (48h) &gt; 21 mg/L</td>
<td>EC50 (21d) = 34 mg/L, NOEC (21d) = 26 mg/L</td>
</tr>
</tbody>
</table>

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 substance is not expected to be distributed into sediment. As a result, the risk for this compartment is
Soil macro organisms

- 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 aluminosilicates (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**

<table>
<thead>
<tr>
<th>Water</th>
<th>Sediment</th>
<th>Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC aqua (freshwater): 0.52 mg/L (Assessment factor 50)</td>
<td>Koc value not applicable. Based on the physicochemical properties the substance can be expected to have a low potential for adsorption.</td>
<td>Koc value not applicable. Based on the physicochemical properties the substance can be expected to have a low potential for adsorption.</td>
</tr>
</tbody>
</table>

**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.

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

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

**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.

**SECTION 14: Transport information**

<table>
<thead>
<tr>
<th>Transport class</th>
<th>Land transport ADR/RID</th>
<th>Marine transport IMDG</th>
<th>Air transport ICAO/IATA</th>
</tr>
</thead>
</table>

Revision date: 15 June 2015
### Thermoplastic Dye Sachet. Blue

| 14.1 UN-No | - | - | - |
| 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 | - | - | - |
| 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. |

**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.

**US FDA**

Ultramarine blue is cleared in 21 CFR

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).

**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 Packaging Legislation
- MITI/ENCS (JAPAN)
- KTCL/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.

### 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.
Thermoplastic Dye Sachet. Blue

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/m³ 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
LD50 Lethal dose at 50%
LC50 Lethal concentration at 50%
EC50 Half maximal effective concentration
IC50 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

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.