# Chromazone Masterbatch

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

<table>
<thead>
<tr>
<th>1.1. Product identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>Chromazone Masterbatch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.2. Relevant identified uses of the substance or mixture and uses advised against</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Use</strong></td>
<td>[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU12] Manufacture of plastics products, including compounding and conversion; [PC32] Polymer preparations and compounds; [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact); [ERC3] Formulation in materials; [AC13] Plastic articles;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.3. Details of the supplier of the safety data sheet</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Company</strong></td>
<td>Thermographic Measurements Ltd</td>
</tr>
</tbody>
</table>
| **Address** | Riverside Buildings  
Dock Road  
Connah's Quay  
Flintshire CH5 4DS  
United Kingdom |
| **Web** | www.t-m-c.com |
| **Telephone** | +44 (0)1244 818348 |
| **Fax** | +44 (0)1244 818502 |
| **Email** | sales@t-m-c.com |
| **Email address of the competent person** | chrisc@t-m-c.com |

<table>
<thead>
<tr>
<th>1.4. Emergency telephone number</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Emergency telephone number</strong></td>
<td>+44 (0)1244 818348</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td>09.00 to 17.00</td>
</tr>
</tbody>
</table>

**Intended use**
Manufacture of temperature sensitive colour change plastics.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

| 2.1.1. Classification - 67/548/EEC | Xi; R43  
Symbols: Xi: Irritant. |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main hazards</strong></td>
<td>May cause sensitisation by skin contact.</td>
</tr>
<tr>
<td>2.1.2. Classification - EC 1272/2008</td>
<td>Skin Sens. 1: H317;</td>
</tr>
</tbody>
</table>

### 2.2. Label elements
Chromazone Masterbatch

2.2. Label elements

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th><img src="image" alt="" /></th>
</tr>
</thead>
</table>

**Signal Word** 
Warning

**Hazard Statement**
Skin Sens. 1: H317 - May cause an allergic skin reaction.

**Precautionary Statement:**
Prevention
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement:
Response
P302+P352 - IF ON SKIN: Wash with plenty of water/ .
P321 - Specific treatment (see on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.

Precautionary Statement:
Disposal
P501 - Dispose of contents/container to

SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Index No.</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration Number</th>
<th>Conc. (%w/w)</th>
<th>Classification</th>
<th>M-factor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Isopropylidenediphenol</td>
<td>604-030-00-0</td>
<td>80-05-7</td>
<td>201-245-8</td>
<td></td>
<td>1 - 10%</td>
<td>Repr. Cat. 3; R62 Xi; R37-41 R43 R52</td>
<td></td>
</tr>
</tbody>
</table>

EC 1272/2008

<table>
<thead>
<tr>
<th>Chemical Name</th>
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<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration Number</th>
<th>Conc. (%w/w)</th>
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<th>M-factor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Isopropylidenediphenol</td>
<td>604-030-00-0</td>
<td>80-05-7</td>
<td>201-245-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non hazardous components</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Formaldehyde…%</td>
<td>605-001-00-5</td>
<td>50-00-0</td>
<td>200-001-8</td>
<td></td>
<td></td>
<td>Carc. 2: H351; Acute Tox. 3: H331; Acute Tox. 3: H311; Skin Corr. 1B: H314; Skin Sens. 1: H317;</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

**Inhalation**
Move the exposed person to fresh air. Seek medical attention.

**Eye contact**
Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

**Skin contact**
Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

**Ingestion**
Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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

**Inhalation**
Plastic masterbatch is granular and as such will not represent a hazard by inhalation. When heated during moulding formaldehyde may be generated which can cause irritation, coughing and shortness of breath.

**Eye contact**
May cause irritation to eyes.

**Skin contact**
May cause irritation to skin. May cause sensitisation by skin contact.

**Ingestion**
May cause irritation to mucous membranes.

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

**Inhalation**
If you feel unwell, seek medical advice (show the label where possible).
### Chromazone Masterbatch

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

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>Seek medical attention if irritation or symptoms persist.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>If you feel unwell, seek medical advice (show the label where possible).</td>
</tr>
</tbody>
</table>

#### SECTION 5: Firefighting measures

**5.1. Extinguishing media**
- Carbon oxides.

**5.2. Special hazards arising from the substance or mixture**
- Burning produces irritating, toxic and obnoxious fumes.

**5.3. Advice for firefighters**
- Wear suitable respiratory equipment when necessary.

#### SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
- Avoid raising dust. Ensure adequate ventilation of the working area. Wear suitable protective equipment.

**6.2. Environmental precautions**
- Do not allow product to enter drains. Prevent further spillage if safe.

**6.3. Methods and material for containment and cleaning up**
- Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

**6.4. Reference to other sections**
- For disposal see section 13.

#### SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
- Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

**7.2. Conditions for safe storage, including any incompatibilities**
- Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

**7.3. Specific end use(s)**
- Avoid contact with eyes. Heating during moulding will generate high levels of formaldehyde vapours which should be vented. In case of insufficient ventilation, wear suitable respiratory equipment.

**Suitable packaging**
- Plastic containers.

#### SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**
- Wear suitable gloves and eye/face protection.

**8.1.1. Exposure Limit Values**
8.1.1. Exposure Limit Values

<table>
<thead>
<tr>
<th>Compound</th>
<th>WEL 8-hr limit ppm:</th>
<th>WEL 8-hr limit mg/m³:</th>
<th>WEL 15 min limit ppm:</th>
<th>WEL 15 min limit mg/m³:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Isopropylidenediphenol</td>
<td></td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

8.2.1. Appropriate engineering controls
Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

- **Eye / face protection**: Approved safety goggles.
- **Skin protection - Hand protection**: Chemical resistant gloves (PVC).
- **Respiratory protection**: Wear suitable respiratory equipment.
- **Environmental exposure controls**: Appropriate local exhaust ventilation is required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- **Appearance**: Pellets
- **Colour**: Various colours according to type
- **Odour**: Slight
- **Flash point**: Not applicable
- **Solubility**: Insoluble in water

SECTION 10: Stability and reactivity

10.1. Reactivity
- No Significant Hazard.

10.2. Chemical stability
- Stable under normal conditions.

10.3. Possibility of hazardous reactions
- No Significant Hazard.

10.4. Conditions to avoid
- No Significant Hazard.

10.5. Incompatible materials
- No Significant Hazard.

10.6. Hazardous decomposition products
- Burning produces irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- **Acute toxicity**: May cause sensitisation by skin contact.

11.1.4. Toxicological Information

<table>
<thead>
<tr>
<th>Compound</th>
<th>Oral Rat LD50:</th>
<th>Oral Mouse LD50:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Isopropylidenediphenol</td>
<td>4240 mg/kg</td>
<td>2500 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Dermal Rabbit LD50: 3 mL/kg</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information
12.1. Toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>Green algae EC50/96h</th>
<th>Daphnia LC50/48h</th>
<th>Fathead minnows LC50/96h</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Isopropylidenediphenol</td>
<td>3.1</td>
<td>10.2</td>
<td>4.6</td>
</tr>
</tbody>
</table>

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

ADR/RID

The product is not classified as dangerous for carriage.

IMDG

The product is not classified as dangerous for carriage.

IATA

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

Regulations

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Further information

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Other information

Text of risk phrases in Section 3

R37 - Irritating to respiratory system.
R41 - Risk of serious damage to eyes.
R43 - May cause sensitisation by skin contact.
R52 - Harmful to aquatic organisms.
R62 - Possible risk of impaired fertility.

Text of Hazard Statements in Section 3

Skin Sens. 1: H317 - May cause an allergic skin reaction.
Eye Dam. 1: H318 - Causes serious eye damage.
STOT SE 3: H335 - May cause respiratory irritation.
Repr. 2: H361f - Suspected of damaging fertility.
Acute Tox. 3: H301 - Toxic if swallowed.
Acute Tox. 3: H311 - Toxic in contact with skin.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Acute Tox. 3: H331 - Toxic if inhaled.
Carc. 2: H351 - Suspected of causing cancer.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.