

## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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### Chromazone Dispersion BPA Free

Revision 0

Revision date 2014-09-04

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

##### 1.1. Product identifier

**Product name** Chromazone Dispersion BPA Free

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

**Product Use** [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [SU7] Printing and reproduction of recorded media; [PC18] Ink and toners; [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact); [ERC2] Formulation of preparations;

**Description** Aqueous temperature sensitive colour change pigment dispersion.

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

**Company** Thermographic Measurements Ltd  
**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-com

##### 1.4. Emergency telephone number

**Emergency telephone number** +44 (0)1244 818348  
 Hours 09.00 to 17.00

##### Intended use

Manufacture of colour change inks and coatings.

#### SECTION 2: Hazards identification

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

**2.1.1. Classification - 67/548/EEC** Xi; R43  
 Symbols: Xi: Irritant.  
**Main hazards** May cause sensitisation by skin contact.  
**2.1.2. Classification - EC 1272/2008** Skin Sens. 1: H317;


##### 2.2. Label elements

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## 2.2. Label elements

Hazard pictograms	
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 soap and 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 hazardous waste collection.

## 2.3. Other hazards

Other hazards	No data available.
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## SECTION 3: Composition/information on ingredients

## 3.1. Substances

## 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Colour developer					1 - 10%	Xi; R36/37/38
Formaldehyde...%	605-001-00-5	50-00-0	200-001-8		0 - 0.5%	Carc. Cat. 3; R40 T; R23/24/25 C; R34 R43

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Colour developer					1 - 10%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;
Formaldehyde...%	605-001-00-5	50-00-0	200-001-8		0 - 0.5%	Carc. 2: H351; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; Skin Corr. 1B: H314; Skin Sens. 1: H317;

## 3.2. Mixtures

	Refer to section Section 3.1.
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## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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

Inhalation	Irritant, moderate respiratory.
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## 4.2. Most important symptoms and effects, both acute and delayed

Eye contact	Irritating to eyes.
Skin contact	Avoid contact with skin. Irritating to skin.
Ingestion	Ingestion may cause nausea and vomiting.

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

Inhalation	Coughing, difficulty in breathing. If breathing is difficult give oxygen.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	May cause sensitisation by skin contact. Wash off immediately with plenty of soap and water.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

	Burning produces irritating, toxic and obnoxious fumes.
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### 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

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

	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
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### 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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### 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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### 6.4. Reference to other sections

	For disposal see section 13.
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## 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.
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### 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.
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### 7.3. Specific end use(s)

	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

Chromazone Dispersion BPA Free	WEL 8-hr limit ppm: 2	WEL 8-hr limit mg/m3: 2.5
	WEL 15 min limit ppm: 2	WEL 15 min limit mg/m3: 2.5
Formaldehyde...%	WEL 8-hr limit ppm: 2	WEL 8-hr limit mg/m3: 2.5
	WEL 15 min limit ppm: 2	WEL 15 min limit mg/m3: 2.5

### 8.2. Exposure controls

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## 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Wear: Suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

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

State	Liquid
Colour	Various colours according to type.
Odour	Characteristic
pH	5 - 5.5
Flash point	Not applicable.
Flammability limits	Not applicable.
Vapour Flammability	Not applicable.
Upper Explosive Limit	Not applicable.
Lower Explosive Limit	Not applicable.
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature	Not applicable.
Viscosity	No data available
Explosive	Not applicable.
Solubility	Miscible in water

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

	No data available.
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### 10.2. Chemical stability

	Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

	No Significant Hazard.
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### 10.4. Conditions to avoid

	Protect from frost.
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### 10.5. Incompatible materials

	Alkalis.
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### 10.6. Hazardous decomposition products

	Formaldehyde may be generated and other harmful fumes.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	May cause sensitisation by skin contact.
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#### 11.1.4. Toxicological Information

Colour developer	Oral Rat LD50: 3400 mg/kg	
Formaldehyde...%	Inhalation Rat LC50/2H h: 250 ppm	Oral Rat LD50: 500 mg/kg
	Oral Mouse LD50: 500 mg/kg	Inhalation Mouse LC50/2H h: 505 mg/m3
	Dermal Rabbit LD50: 270 mg/kg	

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## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

No data is available on this product.

### 12.3. Bioaccumulative potential

No data is available on this product.

### 12.4. Mobility in soil

No data is available on this product.

### 12.5. Results of PBT and vPvB assessment

No data is available on this product.

### 12.6. Other adverse effects

No data is available on this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Absorb with inert, absorbent material.

### General information

Dispose of in compliance with all local and national regulations.

### Disposal methods

Do not empty into drains; dispose of this material and its container in a safe way.

## 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. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

### 15.2. Chemical safety assessment

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

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**SECTION 16: Other information****Other information****Text of risk phrases in Section 3**

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.  
 R34 - Causes burns.  
 R36/37/38 - Irritating to eyes, respiratory system and skin.  
 R40 - Limited evidence of a carcinogenic effect.  
 R43 - May cause sensitisation by skin contact.

**Text of Hazard Statements in Section 3**

Skin Irrit. 2: H315 - Causes skin irritation.  
 Eye Irrit. 2: H319 - Causes serious eye irritation.  
 STOT SE 3: H335 - May cause respiratory irritation.  
 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.  
 Skin Sens. 1: H317 - May cause an allergic skin reaction.  
 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.