

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Page 1/5

THERMOSTAR SHEET FED OFFSET INK BIS A FREE

Revision 2

Revision date 2015-07-02

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

1.1. Product identifier

Product name	THERMOSTAR SHEET FED OFFSET INK BIS A 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;
Description	Temperature sensitive, colour change ink.

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 temperature-indicating products and temperature-sensitive decorative effects.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Main hazards	No Significant Hazard
--------------	-----------------------

2.2. Label elements

Risk phrases	No Significant Hazard
--------------	-----------------------

2.3. Other hazards

Other hazards	No data available.
---------------	--------------------

SECTION 3: Composition/information on ingredients

3.2. Mixtures

THERMOSTAR SHEET FED OFFSET INK BIS A FREE

Revision 2

Revision date 2015-07-02

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Colour developer					1 - 10%	Xi; R36/37/38	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Colour developer					1 - 10%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;	

Refer to Section 3.1.

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	Irritant, moderate respiratory.
Eye contact	Irritating to eyes.
Skin contact	May cause sensitisation by skin contact. Avoid contact with 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.
Eye contact	Irritating to eyes. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause sensitisation by skin contact.
Ingestion	If you feel unwell, seek medical advice (show the label where possible). Ingestion may cause nausea and vomiting.

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

	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

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
--	---

THERMOSTAR SHEET FED OFFSET INK BIS A FREE

Revision 2

Revision date 2015-07-02

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)

	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
--	---

SECTION 8: Exposure controls/personal protection

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

Appearance	Paste
Colour	Various colours according to type.
Odour	Mild

SECTION 10: Stability and reactivity

10.1. Reactivity

	No data available.
--	--------------------

10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

10.3. Possibility of hazardous reactions

	No Significant Hazard.
--	------------------------

10.4. Conditions to avoid

	Protect from frost.
--	---------------------

10.5. Incompatible materials

	Alkalis.
--	----------

10.6. Hazardous decomposition products

	Formaldehyde may be generated and other harmful fumes.
--	--

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

THERMOSTAR SHEET FED OFFSET INK BIS A FREE

Revision 2

Revision date 2015-07-02

11.1.4. Toxicological Information

Colour developer	Oral Rat LD50: 3400 mg/kg
------------------	---------------------------

SECTION 12: Ecological information

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 at hazardous or special waste collection point.
--	--

SECTION 14: Transport information

14.1. UN number

	The product is not classified as dangerous for carriage.
--	--

14.2. UN proper shipping name

	The product is not classified as dangerous for carriage.
--	--

14.3. Transport hazard class(es)

	The product is not classified as dangerous for carriage.
--	--

14.4. Packing group

	The product is not classified as dangerous for carriage.
--	--

14.5. Environmental hazards

	The product is not classified as dangerous for carriage.
--	--

14.6. Special precautions for user

	The product is not classified as dangerous for carriage.
--	--

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	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

THERMOSTAR SHEET FED OFFSET INK BIS A FREE

Revision 2

Revision date 2015-07-02

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.

15.2. Chemical safety assessment

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

SECTION 16: Other information**Other information**

Revision	This document differs from the previous version in the following areas: 1 - Product Use. 12 - 12.1. Toxicity.
Text of risk phrases in Section 3	R36/37/38 - Irritating to eyes, respiratory system and skin.
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.

Further information

HMS LABELLING	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.
	HEALTH 1., FLAMMABILITY 0., PHYSICAL HAZARD 0. PERSONAL PROTECTION: E.