

## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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## MC153-14

Revision 6
Revision date 2015-05-13

SECTION 1: Identification of	of the substance/mixture and of the company/undertaking	
1.1. Product identifier	. the capetance, mixture and of the company, and change	
Product name	MC153-14	
1.2. Relevant identified uses o	f the substance or mixture and uses advised against	
Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [SU24] Scientific research and development; [PC9a] Coatings and paints, thinners, paint removers; [PROC7] Industrial spraying; [ERC8a] Wide dispersive indoor use of processing aids in open systems; [AC1] Vehicles;	
Description	Temperature indicating colour change paint.	
1.3. Details of the supplier of the	he 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 nur	mber	
Emergency telephone number	+44 (0)1244 818348	
	Hours 09.00 to 17.00	
Intended use		
	Temperature measurement and thermal mapping.	
SECTION 2: Hazards ident		
2.1. Classification of the subst		
2.1.1. Classification - 1999/45/EC	Xn; R20/21 Xi; R43 R10 Symbols: Xn: Harmful.	
Main hazards	Flammable. Harmful by inhalation and in contact with skin. May cause sensitisation by skin contact.	
2.1.2. Classification - EC 1272/2008	Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319;	



2.2. Label elements

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#### 2.2. Label elements

## Hazard pictograms





# Signal Word Hazard Statement

#### Warning

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

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

Eye Irrit. 2: H319 - Causes serious eye irritation.

# Precautionary Statement: Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting// equipment.

P242 - Use only non-sparking tools.

 ${\sf P243-Take}\ precautionary\ measures\ against\ static\ discharge.$ 

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash thoroughly after handling.

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/ .

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

 ${\sf P305+P351+P338-IF\ IN\ EYES:\ Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove\ contact}$ 

lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P370+P378 - In case of fire: Use to extinguish.

## Precautionary Statement:

Storage

P403+P235 - Store in a well-ventilated place. Keep cool.

**Precautionary Statement:** 

Disposal

P501 - Dispose of contents/container to

## SECTION 3: Composition/information on ingredients

#### 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.
2-methoxy-1-methylethyl acetate	607-195-00-7	108-65-6	203-603-9	01-2194759129-00	30 - 40%	R10	
Xylene	601-022-00-9	1330-20-7	215-535-7	01-2119488216-32	10 - 20%	R10 Xn; R20/21 Xi; R38	
MC150-12 Pigment					10 - 20%	Xn; R21/22 Xi; R36-43	
Ethylbenzene	601-023-00-4	100-41-4	202-849-4	01-2119489370-00	1 - 10%	F; R11 Xn; R20	



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#### 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
2-methoxy-1-methylethyl acetate	607-195-00-7	108-65-6	203-603-9	01-2194759129-00	30 - 40%	Flam. Liq. 3: H226;	
Xylene	601-022-00-9	1330-20-7	215-535-7	01-2119488216-32		Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315; Acute Tox. 4: H302: Acute	
MC150-12 Pigment					10 - 20%	Tox. 4: H312; Skin Sens. 1: H317; Eye Irrit. 2: H319;	
Ethylbenzene	601-023-00-4	100-41-4	202-849-4	01-2119489370-00	1 - 10%	Flam. Liq. 2: H225; Acute Tox. 4: H332;	

## 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	DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

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

Inhalation	Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Harmful if swallowed. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. Ingestion may cause nausea and vomiting.

## 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). Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
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	May cause irritation to skin. Repeated or prolonged exposure may cause dermatitis. Seek medical attention if irritation or symptoms persist.
Ingestion	If swallowed, seek medical advice immediately and show this container or label.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.

## 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. Eliminate all sources of ignition. Wear suitable protective equipment.

#### 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. Transfer to suitable, labelled containers for disposal. Clea spillage area thoroughly with plenty of water.				
6.4. Reference to other sections	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. Use explosion proof equipment. Keep away from sources of ignition - No smoking. 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.

## 7.3. Specific end use(s)

Do not spray on naked flame or any other incandescent material.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

## 8.1.1. Exposure Limit Values

2-methoxy-1-methylethyl acetate	WEL 8-hr limit ppm: 5	50	WEL 8-hr limit mg/m3:	274
	WEL 15 min limit ppm: 1	100	WEL 15 min limit mg/m3:	548
	WEL 8-hr limit mg/m3 total -	-	WEL 15 min limit mg/m3 total	-
	inhalable dust:		inhalable dust:	
	WEL 8-hr limit mg/m3 total -	-	WEL 15 min limit mg/m3 total	-
	respirable dust:		respirable dust:	
Ethylbenzene	WEL 8-hr limit ppm: 1	100	WEL 8-hr limit mg/m3:	441
	WEL 15 min limit ppm: 1	125	WEL 15 min limit mg/m3:	552
	WEL 8-hr limit mg/m3 total -	-	WEL 15 min limit mg/m3 total	-
	inhalable dust:		inhalable dust:	
	WEL 8-hr limit mg/m3 total -	-	WEL 15 min limit mg/m3 total	-
	respirable dust:		respirable dust:	
MC150-12 Pigment	WEL 8-hr limit ppm:		WEL 8-hr limit mg/m3:	0.1 as cobalt
	WEL 15 min limit ppm:		WEL 15 min limit mg/m3:	0.1 as cobalt
	WEL 8-hr limit mg/m3 total -	-	WEL 15 min limit mg/m3 total	-
	inhalable dust:		inhalable dust:	
	WEL 8-hr limit mg/m3 total -	-	WEL 15 min limit mg/m3 total	-
	respirable dust:		respirable dust:	
Xylene	WEL 8-hr limit ppm: 5	50	WEL 8-hr limit mg/m3:	220
	WEL 15 min limit ppm: 1	100	WEL 15 min limit mg/m3:	441
	WEL 8-hr limit mg/m3 total -	-	WEL 15 min limit mg/m3 total	-
	inhalable dust:		inhalable dust:	
	WEL 8-hr limit mg/m3 total -	-	WEL 15 min limit mg/m3 total	-
	respirable dust:		respirable dust:	

#### 8.2. Exposure controls

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

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## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Liquid Appearance

> Colour Purple / mauve

Mild Odour

Initial boiling point 140

40

Flash point

Flammability (solid, gas) Flammable

Relative density

Solubility Slightly soluble in water

#### 9.2. Other information

VOC (Volatile organic compounds)

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Avoid sparks, flames, heat and sources of ignition.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Oxidising agents.

#### 10.4. Conditions to avoid

Heat, sparks and open flames.

## 10.5. Incompatible materials

No Significant Hazard.

## 10.6. Hazardous decomposition products

Burning produces obnoxious and irritating fumes

## SECTION 11: Toxicological information

## 11.1.4. Toxicological Information

2-methoxy-1-methylethyl acetate	Oral Rat LD50: 8532 mg/kg	Dermal Rabbit LD50: >5 gm/kg
Ethylbenzene	Inhalation Rat LC50/2H h: 55000 mg/m3	Oral Rat LD50: 3500 mg/kg
	Inhalation Mouse LC50/2H h: 35500 mg/m3	Dermal Rabbit LD50: 17800 uL/kg
Xylene	Inhalation Rat LC50/4H h: 5000 ppm	Oral Rat LD50: 4300 mg/kg
	Oral Mouse LD50: 2119 mg/kg	Dermal Rabbit LD50: >1700 mg/kg

## SECTION 12: Ecological information

## **Further information**

No constituent has yet been asigned a risk phrase pertaining to ecological effects (R50 to R59) or the symbol N.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of this material and its container to hazardous or special waste collection point.

## General information

Dispose of in compliance with all local and national regulations.

## **SECTION 14: Transport information**

Hazard pictograms



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Hazard pictograms	
	3
14.1. UN number	
	UN1263
14.2. UN proper shipping name	
	PAINT
14.3. Transport hazard class(e	s)
ADR/RID	3
Subsidiary risk	Ţ <sub>-</sub>
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-
14.4. Packing group	
Packing group	III
14.5. Environmental hazards	
Environmental hazards	No
Marine pollutant	No No
ADR/RID	1
Hazard ID	30
Tunnel Category	(D/E)
IMDG	1
EmS Code	F-E S-E
IATA	1
Packing Instruction (Cargo)	366
Maximum quantity	220 L
Packing Instruction (Passenger)	355
Maximum quantity	60 L
SECTION 15: Regulatory in	
15. 1. Salety, Health and enviro	nmental regulations/legislation specific for the substance or mixture
Regulations	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  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

## 15.2. Chemical safety assessment

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

93/105/EC and 2000/21/EC.

as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC,

## SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:.



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Other information	
	2 - 2.1. Classification of the substance or mixture.
	2 - 2.1.2. Classification - EC 1272/2008.
	2 - Hazard pictograms.
	2 - Signal Word.
	2 - Precautionary Statement: Prevention.
	2 - Precautionary Statement: Response.
	2 - Precautionary Statement: Storage.
	2 - Precautionary Statement: Disposal.
	12 - 12.1. Toxicity.
	15 - Risk phrases.
	15 - Safety phrases.
Text of risk phrases in	R10 - Flammable
Section 3	R11 - Highly flammable.
	R20/21 - Harmful by inhalation and in contact with skin.
	R20 - Harmful by inhalation.
	R21/22 - Harmful in contact with skin and if swallowed.
	R36 - Irritating to eyes.
	R38 - Irritating to skin.
	R43 - May cause sensitisation by skin contact.
Text of Hazard Statements in	Flam. Liq. 3: H226 - Flammable liquid and vapour.
Section 3	Acute Tox. 4: H312 - Harmful in contact with skin.
	Skin Irrit. 2: H315 - Causes skin irritation.
	Acute Tox. 4: H332 - Harmful if inhaled.
	Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin
	Skin Sens. 1: H317 - May cause an allergic skin reaction.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
	Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Maximum content of VOC	654.
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.
	All components are TSCA compliant.
HMIS LABELLING	HEALTH 1,. FLAMMABILITY 3,. PHYSICAL HAZARD 0.