

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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MC350-8

Revision 7
Revision date 2018-03-13

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Product name	I MC350-8

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

Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU24]

Scientific and development; [PC9a] Coatings and paints, thinners, paint removers;

[PROC7] Industrial spraying;

DescriptionSensitive thermal coating for the exclusive use of scientific research and development (R&D) – SU24, Other uses are not recommended.

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 www.t-m-c.com

Web www.t-m-c.com +44 (0)1244 81834

 Telephone
 +44 (0)1244 818348

 Fax
 +44 (0)1244 818502

 Email
 sales@t-m-c.com

 Email address of the
 chrisc@t-m-com

Email address of the competent person

1.4. Emergency telephone number

Emergency telephone number +44 (0)1244 818348

Hours 09.00 to 17.00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC	Skin Irrit. 2: H315; Carc. 1B: H350; Repr. 1A: H360Df; STOT RE 2: H373; Aquatic Chronic 2:
1272/2008	H411·

2.2. Label elements

Hazard pictograms







Signal Word

Hazard Statement

Danger

Skin Irrit. 2: H315 - Causes skin irritation.

Carc. 1B: H350 - May cause cancer .

Repr. 1A: H360Df - May damage the unborn child. Suspected of damaging fertility.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .

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2.2. Label elements

	Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.			
Precautionary Statement:	P201 - Obtain special instructions before use.			
Prevention	P202 - Do not handle until all safety precautions have been read and understood.			
	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.			
	P273 - Avoid release to the environment.			
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.			
Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .			
Response	P314 - Get medical advice/attention if you feel unwell.			
	P332+P313 - If skin irritation occurs: Get medical advice/attention.			
	P391 - Collect spillage.			
Precautionary Statement:	P405 - Store locked up.			
Storage				

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Xylene	601-022-00-9	1330-20-7	215-535-7	01-2119488216-32	20 - 30%	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315;
2-methoxy-1-methylethyl acetate	607-195-00-7	108-65-6	203-603-9	01-2194759129-00	20 - 30%	Flam. Liq. 3: H226;
C.I. Pigment Red 104	082-010-00-5	12656-85-8	235-759-9	01-2119491303-00	10 - 20%	Carc. 1B: H350; Repr. 1A: H360Df; STOT RE 2: H373; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
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. Treat as for inhalation if any signs of poisoning are present. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING. Seek medical attention.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Inhalation of vapour may cause shortness of breath.
Eye contact May cause irritation to eyes.	
Skin contact May cause irritation to skin.	
Ingestion	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).			
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 If you feel unwell, seek medical advice (show the label where possible).				
Ingestion If you feel unwell, seek medical advice (show the label where possible).				

SECTION 5: Firefighting measures

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5.1. Extinguishing media	
	Alcohol resistant foam. 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:. Self-contained breathing apparatus. Wear chemical protective clothing.
SECTION 6: Accidental release	se measures
6.1. Personal precautions, protect	ive equipment and emergency procedures
	Ensure adequate ventilation of the working area. Evacuate personnel to a safe 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.
6.3. Methods and material for con-	tainment and cleaning up
	Absorb with inert, absorbent material. 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 sto	rage
7.1. Precautions for safe handling	
	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Keep away from sources of ignition - No smoking. Use explosion proof equipment.
7.2. Conditions for safe storage, ir	ncluding 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)	
	Do not spray on naked flame or any other incandescent material.
SECTION 8: Exposure control	s/personal protection
8.1. Control parameters	
8.1.1. Exposure Limit Values	

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8.1.1. Exposure Limit Values

2-methoxy-1-methylethyl acetate	WEL 8-hr limit ppm: 50	WEL 8-hr limit mg/m3: 274
	WEL 15 min limit ppm: 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:
C.I. Pigment Red 104	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 0.05 (as
		chromium)
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
	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: 100	WEL 8-hr limit mg/m3: 441
	WEL 15 min limit ppm: 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:
Xylene	WEL 8-hr limit ppm: 50	WEL 8-hr limit mg/m3: 220
	WEL 15 min limit ppm: 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:

DNEL: Derived no-effect level.

Exposure Pattern - Workers

2-methoxy-1-methylethyl acetate	Acute inhalation - Local effects	550 mg/m³		
	Long-term - inhalation - Systemic	275 mg/cm³	Long-term - dermal - Systemic	796 mg/m³
	effects		effects	
C.I. Pigment Red 104	Acute inhalation - Systemic	0 <none></none>		
	effects			
	Long-term - inhalation - Systemic	0.006 mg/m ³		
	effects			
Ethylbenzene	Acute inhalation - Local effects	293 mg/m³		
	Long-term - inhalation - Systemic	77 mg/m³	Long-term - dermal - Systemic	180 mg/m³
	effects		effects	
Xylene	Acute inhalation - Systemic	289 mg/m³		
	effects			
	Acute inhalation - Local effects	289 mg/m³	Long-term - inhalation - Systemic	77 mg/m³
			effects	
	Long-term - dermal - Systemic	180 bw/day		
	effects			

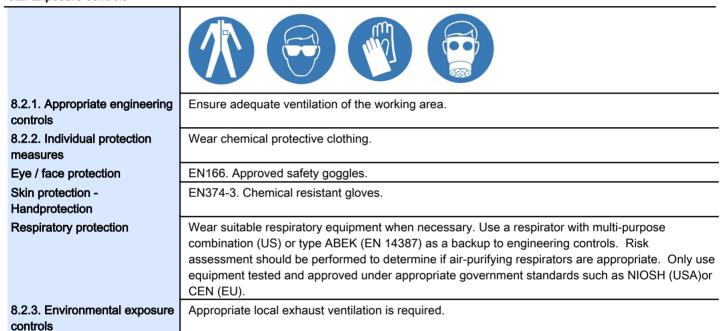
Exposure Pattern - General population

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Exposure Pattern - General population

2-methoxy-1-methylethyl acetate	Long-term - inhalation - Systemic effects	33 mg/m³	
	Long-term - inhalation - Local effects	33 mg/m³	Long-term - dermal - Systemic 320 mg/m³ effects
	Long-term - oral - Systemic effects	36 bw/day	
Ethylbenzene	Long-term - inhalation - Systemic	15 mg/m³	
	effects Long-term - oral - Systemic	1.3 mg/m³	
	effects		
Xylene	Long-term - inhalation - Systemic	14.8 mg/m³	
	effects		
	Long-term - dermal - Systemic	108 bw/day	Long-term - oral - Systemic effects 1.6 bw/day
	effects		

8.2. Exposure controls



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Red
Melting point	Not applicable.
Initial boiling point	140 °C
Flash point	30 °C
Vapour density	No data available
Relative density	1.56 (H2O = 1 @ 20 °C)
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	30
Explosive properties	No data available
Solubility	Slightly soluble in water

9.2. Other information

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9.2. Other information

VOC (Volatile organic compounds)
Total Solids 928 g/l

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 irritating, toxic and obnoxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Toxic by inhalation, in contact with skin and if swallowed.
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	No data available.
Respiratory or skin	No data available.
sensitisation	
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	Carcinogen Cat 1B.
Reproductive toxicity	Possible risk of harm to the unborn child. Possible risk of impaired fertility.
STOT-single exposure	No data available.
STOT-repeated exposure	May cause damage to organs through repeated exposure. In animals, effects have been reported
	on the following organs: Kidney. Liver. Nasal tissue.
Aspiration hazard	Harmful if inhaled.
11.1.2. Mixtures	

The Registry of Toxic Effects of Chemical (RTECS) contains toxicity data for components in this product.

11.1.3. Hazard Information

Refer to section 2.2.

11.1.4. Toxicological Information

2-methoxy-1-methylethyl acetate	Oral Rat LD50: 8532 mg/kg	Dermal Rabbit LD50: >5 gm/kg
C.I. Pigment Red 104	Oral Rat LD50: >10000 mg/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

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12.1. Toxicity

12.1. Toxicity		
C.I. Pigment Red 104	Fish LC50/96h: 2500.0000 mg/l	Daphnia LC50/48h: 100
12.2. Persistence and degrad	lability	
	No data is available on this product.	
12.3. Bioaccumulative potent		
<u> </u>		
	No data is available on this product.	
Partition coefficient	-	
	MC350-8 No data available	
12.4. Mobility in soil		
	No data is available on this product.	
12.5. Results of PBT and vP	'B assessment	
	No data available.	
12.6. Other adverse effects		
	May cause long-term adverse effects in the aquatic e	nvironment.
SECTION 13: Disposal co	nsiderations	
13.1. Waste treatment metho	ds	
	Avoid release to the environment.	
General information		
	Dispose of in compliance with all local and national re	egulations.
Disposal methods		
	Do not allow product to enter drains. Dispose of this r special waste collection point. Contact a licensed was	
Disposal of packaging		
	Dispose of this material and its container to hazardou	s or special waste collection point.
SECTION 14: Transport in	nformation	
Hazard pictograms		
· •	3	
14.1. UN number		
	UN1992	
14.2. UN proper shipping nar	ne	
	FLAMMABLE LIQUID, TOXIC, N.O.S. (Methoxy Prop	oyl Acetate, C.I. Pigment Red 104)
14.3. Transport hazard class	(es)	
ADR/RID	3	
Subsidiary risk	6.1	
IMDG	3	
Subsidiary risk	6.1	

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14.3. Transport hazard class(es)	14.3. Transport hazard class(es)	
Subsidiary risk	6.1	
14.4. Packing group		
Packing group	III	
14.5. Environmental hazards		
Environmental hazards	No	
Marine pollutant	No	
14.6. Special precautions for user		
	No data available.	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
	No data available.	
ADR/RID		
Hazard ID	36	
Tunnel Category	(D/E)	
IMDG		
EmS Code	F-E S-D	
IATA		
Packing Instruction (Cargo)	366	
Maximum quantity	220 L	
Packing Instruction (Passenger)	355	
Maximum quantity	60 L	
SECTION 15: Regulatory information		

SECTION 15: Regulatory information

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

Regulations

This safety data sheet complies with Regulation (EC) 2015/830.

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.

Pigment Red (CAS: 10412656-85-8) is included among substances subject to authorization under All XIV of REACH, but being the mixture used in scientific research and development activities , The exemption from Art. 56.3 of REACH;.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Other information

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

- 1 Product Use.
- 2 Hazard pictograms.
- 2 Precautionary Statement: Prevention.
- 2 Precautionary Statement: Response.
- 2 Precautionary Statement: Disposal.
- 9 9.1. Information on basic physical and chemical properties (Initial boiling point).
- 9 9.1. Information on basic physical and chemical properties (Melting point).

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Other information	
Text of Hazard Statements in Section 3	 9 - 9.1. Information on basic physical and chemical properties (Flash point). 9 - 9.1. Information on basic physical and chemical properties (Autoignition temperature). 9 - 9.1. Information on basic physical and chemical properties (Explosive properties). 9 - 9.1. Information on basic physical and chemical properties (Relative density). 9 - 9.1. Information on basic physical and chemical properties (Vapour density). 9 - 9.1. Information on basic physical and chemical properties (Fat Solubility). 9 - 9.1. Information on basic physical and chemical properties (Solubility). 9 - 9.2. Other information (VOC (Volatile organic compounds)). 9 - 9.2. Other information (Partition coefficient). 9 - 9.2. Other information (Total Solids). Flam. Liq. 3: H226 - Flammable liquid and vapour. Acute Tox. 4: H312 - Harmful in contact with skin. Skin Irrit. 2: H315 - Causes skin irritation. Acute Tox. 4: H332 - Harmful if inhaled. Carc. 1B: H350 - May cause cancer . Repr. 1A: H360Df - May damage the unborn child. Suspected of damaging fertility. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure . Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Maximum content of VOC	632 g/l.
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. For professional use only in research and development. All components are TSCA compliant.
HMIS LABELLING	HEALTH 4,. FLAMMABILITY 3,. PHYSICAL HAZARD 0.