

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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SC240

Revision 3

Revision date 2015-07-07

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

1.1. Product identifier

| | |
|--------------|-------|
| Product name | SC240 |
|--------------|-------|

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); [SU24] Scientific research and development; |
| Description | Temperature indicating colour change paint. |

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

| | |
|--|--|
| | Temperature measurement and thermal mapping. |
|--|--|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| | |
|--------------------------------------|--|
| 2.1.1. Classification - 1999/45/EC | Xn; R20/21 Xi; R38 R10 Symbols: Xn: Harmful. |
| Main hazards | Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. |
| 2.1.2. Classification - EC 1272/2008 | Flam. Liq. 3: H226; Skin Irrit. 2: H315; Acute Tox. 4: H332; |

2.2. Label elements

| | |
|-------------------|---|
| Hazard pictograms |  |
| Signal Word | Warning |

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2.2. Label elements

| | |
|--|--|
| Hazard Statement | Flam. Liq. 3: H226 - Flammable liquid and vapour. Skin Irrit. 2: H315 - Causes skin irritation. Acute Tox. 4: H332 - Harmful if inhaled. |
| 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. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. 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. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: 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. |
|---------------------------------|--------------|-----------|-----------|---------------------------|--------------|------------------------|-----------|
| Xylene | 601-022-00-9 | 1330-20-7 | 215-535-7 | 01-2119488216-32 | | R10 Xn; R20/21 Xi; R38 | |
| 2-methoxy-1-methylethyl acetate | 607-195-00-7 | 108-65-6 | 203-603-9 | 01-2194759129-00 | | R10 | |
| Ethylbenzene | 601-023-00-4 | 100-41-4 | 202-849-4 | 01-2119489370-00 | | F; R11 Xn; R20 | |

EC 1272/2008

| Chemical Name | Index No. | CAS No. | EC No. | REACH Registration Number | Conc. (%w/w) | Classification | M-factor. |
|---------------------------------|--------------|-----------|-----------|---------------------------|--------------|--|-----------|
| 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; Flam. Liq. 3: H226; | |
| 2-methoxy-1-methylethyl acetate | 607-195-00-7 | 108-65-6 | 203-603-9 | 01-2194759129-00 | | Flam. Liq. 3: H226; | |
| Ethylbenzene | 601-023-00-4 | 100-41-4 | 202-849-4 | 01-2119489370-00 | | 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 |

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4.1. Description of first aid measures

| | |
|--|---------------------|
| | 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. May cause dermatitis. |
| Ingestion | Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. |

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

| | |
|--------------|---|
| Inhalation | Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. |
| Eye contact | May cause irritation to eyes. 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**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. |
|--|---|

6.3. Methods and material for containment 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 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 eat, drink or smoke in areas where this product is used or stored. Do not spray on naked flame or any other incandescent material. Ensure adequate ventilation of the working area. Restricted to professional users. |
|--|--|

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

8.1.1. Exposure Limit Values

| | | |
|---------------------------------|---|---|
| 2-methoxy-1-methylethyl acetate | WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: - | WEL 8-hr limit mg/m3: 274 WEL 15 min limit mg/m3: 548 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: - |
| Ethylbenzene | WEL 8-hr limit ppm: 100 WEL 15 min limit ppm: 125 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: - | WEL 8-hr limit mg/m3: 441 WEL 15 min limit mg/m3: 552 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: - |
| Xylene | WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 100 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: - | WEL 8-hr limit mg/m3: 220 WEL 15 min limit mg/m3: 441 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: - |

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 | Self-contained breathing apparatus. Wear protective clothing. |
| 8.2.3. 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 | Liquid |
| Colour | Yellow |
| Odour | Mild |
| Initial boiling point | 140 |
| Flash point | 32 |
| Relative density | 1.05 |

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

| | |
|--|-------------------|
| | Oxidising agents. |
|--|-------------------|

10.4. Conditions to avoid

| | |
|--|-------------------------------|
| | Heat, sparks and open flames. |
|--|-------------------------------|

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10.5. Incompatible materials

Keep away from food, drink and animal feedingstuffs.

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/m ³ Inhalation Mouse LC50/2H h: 35500 mg/m ³ | Oral Rat LD50: 3500 mg/kg Dermal Rabbit LD50: 17800 uL/kg |
| Xylene | Inhalation Rat LC50/4H h: 5000 ppm Oral Mouse LD50: 2119 mg/kg | Oral Rat LD50: 4300 mg/kg Dermal Rabbit LD50: >1700 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 available.

12.6. Other adverse effects

No data available.

Further information

No data is available on this product.

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



14.1. UN number

UN1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

ADR/RID

3

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14.3. Transport hazard class(es)

| | |
|-------------------------|--------|
| Subsidiary risk 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 |

ADR/RID

| | |
|-----------------|-------|
| Hazard ID | 33 |
| Tunnel Category | (D/E) |

IMDG

| | |
|----------|---------|
| EmS Code | F-E S-E |
|----------|---------|

IATA

| | |
|---------------------------------|-------|
| Packing Instruction (Cargo) | 366 |
| Maximum quantity | 220 L |
| Packing Instruction (Passenger) | 355 |
| Maximum quantity | 60 L |

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. 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. |
|--|--|

SECTION 16: Other information

Other information

| | |
|-----------------------------------|--|
| Revision | This document differs from the previous version in the following areas:. 1 - Product Use. 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. |
| Text of risk phrases in Section 3 | R10 - Flammable R11 - Highly flammable. R20/21 - Harmful by inhalation and in contact with skin. |

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Other information

| | |
|---|--|
| Text of Hazard Statements in Section 3 | R20 - Harmful by inhalation. R38 - Irritating to skin. |
| | 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. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. |

Further information

| | |
|-----------------------|---|
| HMIS 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. All components TSCA compliant. |
| | All components are TSCA compliant. |
| | HEALTH 1, FLAMMABILITY 3, PHYSICAL HAZARD 1. PERSONAL PROTECTION: G. |