
SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Product Name: SC550

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

- Use of the substance/mixture: For scientific research and development only., For professional use only., Temperature indicating colour change paint.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: TMC Hallcrest
- Address of Manufacturer: Riverside Buildings,
Dock Road,
Connah's Quay,
Deeside,
Flintshire, CH5 4DS,
Wales. U.K.
- Telephone: +44 (0) 1244 818348
- Email: Sales@tmc.hallcrest.com

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1244 818348
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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

- CLP: Flam. Liq. 3, Skin Irrit. 2, Carc. 1B, Repr. Cat. 1A, STOT RE 2, Aquatic Chronic 1

2.2 Label elements

- Signal Word: Danger
- Hazard statements
Flammable liquid and vapour.
May cause cancer if swallowed
May damage fertility or the unborn child if swallowed
May cause damage to organs through prolonged or repeated exposure by ingestion
Causes skin irritation.
Very toxic to aquatic life with long lasting effects.
Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
- Precautionary statements
Store in a well-ventilated place. Keep cool.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.
IF exposed or concerned: Get medical advice/attention.

SECTION 2: Hazards identification (....)

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

2.3 Other hazards

- Contains: Orange Lead A substance of very high concern (SVHC) and included in the candidate list for authorisation.
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SECTION 3: Composition/information on ingredients**3.2 Mixtures**

- Orange lead
 - CAS Number: 1314-41-6
 - EC Number: 215-235-6
 - Concentration: 50-60%
 - Categories: Acute Tox. 4; Acute Tox. 4; Carc. 2; Repr. Cat. 1A; STOT SE 1; Aquatic Acute 1; Aquatic Chronic 1; Ox. Sol. 2; Lact.
 - Symbols: GHS09 GHS08 GHS07 Dgr
 - H Statements: H302 H332 H351 H360 H362 H372
- xylene
 - CAS Number: 1330-20-7
 - EC Number: 215-535-7
 - Concentration: 5-15%
 - Categories: Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2
 - Symbols: GHS02;GHS07
 - H Statements: H226;H332;H312;H315
- 2-methoxy-1-methylethyl acetate
 - CAS Number: 108-65-6
 - EC Number: 203-603-9
 - Concentration: 1-10%
 - Categories: Flam. Liq. 3
 - Symbols: GHS02
 - H Statements: H226
- ethylbenzene
 - CAS Number: 100-41-4
 - EC Number: 202-849-4
 - Concentration: 1-5%
 - Categories: Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1
 - Symbols: GHS02;GHS07;GHS08
 - R/H Phrases: H225;H332;H304;H373 (hearing organs)
- Non- hazardous components
 - CAS Number: No information available
 - Concentration: 15-25%
 - Categories: Not classified as hazardous for supply

SECTION 4: First aid measures

4.1 Description of first aid measures

- Contact with eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
- Contact with skin
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
- Ingestion
If swallowed, rinse mouth with water (only if the person is conscious)
Do NOT induce vomiting.
Get medical advice/attention.
IF exposed or concerned: Get medical advice/attention.
- Inhalation
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes
May cause irritation
Seek medical attention if irritation persists
- Contact with skin
May cause irritation
May cause dermatitis
- Ingestion
Toxic: danger of serious damage to health by prolonged exposure if swallowed.
Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system.
- Inhalation
Harmful if inhaled.
May cause shortness of breath

4.3 Indication of any immediate medical attention and special treatment needed

- Contact with eyes
If eye irritation persists: Get medical advice/attention.
- Contact with skin
Seek medical attention if irritation persists
- Ingestion
If swallowed, rinse mouth with water (only if the person is conscious)
Do not induce vomiting
IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.
- Inhalation
Seek medical attention if irritation persists

SECTION 5: Firefighting measures

5.1 Extinguishing media

- In case of fire: Use Foam, Powder, CO2, not water jet to extinguish.

5.2 Special hazards arising from the substance or mixture

- Flammable liquid and vapour. Combustion or thermal decomposition will evolve toxic and irritant vapours.
- May give off noxious and toxic fumes in a fire

5.3 Advice for firefighters

- Wear suitable respiratory protection
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SECTION 6: Accidental release measures

Spillage causes slippery surface

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

- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

- Collect spillage.
- Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly.

6.4 Reference to other sections

- For disposal refer to section 13.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Use non-sparking tools.
- 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.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Get medical advice/attention if you feel unwell.
- Dispose of contents/container to hazardous waste.

7.2 Conditions for safe storage, including any incompatibilities

- Store in a well-ventilated place. Keep cool.
- Keep container tightly closed

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

SECTION 8: Exposure controls/personal protection (....)**8.1 Control parameters**

- 2-methoxy-1-methylethyl acetate
WEL (long term): 8 Hour limit: 50ppm
WEL (short term): 15 min limit 100 ppm
- xylene
WEL (long term): 8 Hour limit: 50ppm
WEL (short term): 15 min limit: 100 ppm
- ethylbenzene
WEL (long term): 8-hr limit ppm: 100
WEL (short term): 15 min limit ppm: 125

Exposure Pattern - Workers

- 2-methoxy-1-methylethyl acetate
Acute inhalation - Local effects 550 mg/m³
Long-term - inhalation - Systemic effects 275 mg/cm³
Long-term - dermal - Systemic effects 796 mg/m³
- Ethylbenzene
Acute inhalation - Local effects : 293 mg/m³
Long-term - inhalation - Systemic effects 77 mg/m³
Long-term - dermal - Systemic effects 180 mg/m³
- Xylene Acute inhalation -
Systemic effects 289 mg/m³
Acute inhalation - Local effects 289 mg/m³
Long-term - inhalation - Systemic effects 77 mg/m³

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 effects 320 mg/m³
Long-term - oral - Systemic effects 36 bw/day
- Ethylbenzene
Long-term - inhalation - Systemic effects 15 mg/m³
Long-term - oral - Systemic effects 1.3 mg/m³
- Xylene
Long-term - inhalation - Systemic effects 14.8 mg/m³
Long-term - dermal - Systemic effects 108 bw/day
Long-term - oral - Systemic effects 1.6 bw/day
Long-term - dermal - Systemic effects 180 bw/day

8.2 Exposure controls

- Wear protective gloves/protective clothing/eye protection/face protection.
- Ensure adequate ventilation

SECTION 8: Exposure controls/personal protection (....)

- Wear suitable protective clothing, including eye/face protection and gloves (PVC are recommended)
 - Safety goggles with lateral shielding (DIN EN 166)
 - Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines
 - If the occupational exposure limits are exceeded, suitable respiratory protective equipment must be worn. If no occupational exposure limits are defined, sufficiently effective respiratory protective measures must be taken in the presence of aerosols and vapours.
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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance:
 - colour Orange
- Odour: Characteristic odour
- Odour threshold: not known ppm
- pH - not applicable
- Melting point - not applicable
- Freezing point/Range: Not available
- Boiling Point/Range: 140°C
- Flashpoint: 35°C
- Evaporation rate - not known
- Vapour pressure - not known
- Vapour density - not known
- Specific Gravity: 2.27 g/cm³
- Fat solubility - not known
- Partition coefficient : n-Octanol/water - not known
- Auto-ignition point - not known
- Viscosity - not known
- Explosive Properties: No information available
- Oxidising Properties: No information available
- Solubility in water: Partially soluble in water
- Volatile Organic Compound Content 386g/l

9.2 Other information

- No information available
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SECTION 10: Stability and reactivity**10.1 Reactivity**

- Shut off all ignition sources

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid sources of ignition
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SECTION 10: Stability and reactivity (....)**10.5 Incompatible materials**

- No special requirements

10.6 Hazardous decomposition products

- Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information**11.1 Information on toxicological effects**

- Acute toxicity
May cause damage to organs through prolonged or repeated exposure.
- Skin corrosion/irritation
Irritating to skin
- Serious eye damage/irritation
No information available
- Respiratory or skin sensitisation
No information available
- Germ cell mutagenicity
No information available
- Carcinogenicity
May cause cancer.
- Reproductive toxicity
May damage fertility or the unborn child
- STOT-single exposure
No information available
- STOT-repeated exposure
No information available
- Repeated or prolonged exposure
No information available
- 2-methoxy-1-methylethyl acetate
LD50 (oral, rat): 8532 mg/kg
LD50 (dermal, rabbit): >5g/kg
- ethylbenzene
LD50 (oral, rat): 3500 mg/kg
LD50 (dermal, rabbit): 17800
LC50 (inhalation, rat): 5500 ppm
- xylene
LD50 (oral, rat): 4300 mg/kg
LD50 (dermal, rabbit): >1700mg/kg
LC50 (inhalation, rat): 5000 mg/m³
LD50 (oral, mouse): 2119 mg/kg

Lead salts have been reported to cross the placenta and to induce embryo- and fetomortality. They also have teratogenic effect in some animal species. No teratogenic effects have been reported with exposure to organometallic lead compounds. Adverse

SECTION 11: Toxicological information (....)

effects of lead on human reproduction, embryonic and fetal development, and postnatal (e.g., mental) development have been reported. Excessive exposure can affect blood, nervous, and digestive systems. The synthesis of hemoglobin is inhibited and results in anemia. If left untreated, neuromuscular dysfunction, possible paralysis, and encephalopathy can result. Additional symptoms of overexposure include: joint and muscle pain, weakness of the extensor muscles (frequently the hand and wrist), headache, dizziness, abdominal pain, diarrhea, constipation, nausea, vomiting, blue line on the gums, insomnia, and metallic taste. High body levels produce increased cerebrospinal pressure, brain damage, and stupor leading to coma and often death., Anorexia., Vomiting, Convulsions, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information**12.1 Toxicity**

- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- immiscible with water

12.5 Results of PBT and vPvB assessment

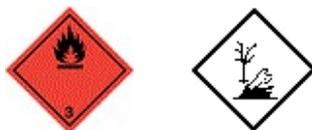
- No information available

12.6 Other adverse effects

- No information available
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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Absorb spillage in inert material and shovel up
 - Disposal should be in accordance with local, state or national legislation
 - This material and its container must be disposed of as hazardous waste
 - Dispose of contents/container to hazardous waste
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SECTION 14: Transport information**14.1 UN number**

- UN No.: 1263

14.2 Proper Shipping Name

- Proper Shipping Name: PAINT
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SECTION 14: Transport information (....)

14.3 Transport hazard class(es)

- Hazard Class: 3

14.4 Packing group

- Packing Group: III

14.5 Environmental hazards

- Marine Pollutant
- ENVIRONMENTALLY HAZARDOUS

14.6 Special precautions for user

- No information available

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Tunnel Code: D/E
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SECTION 15: Regulatory information

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

- COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No1907/2006 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

- A chemical safety assessment (CSA) for this product has not yet been completed
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SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H315: Causes skin irritation. H332: Harmful if inhaled. H351: Suspected of causing cancer. H360: May damage fertility or the unborn child. H362: May cause harm to breast-fed children. H372: Causes damage to organs through prolonged or repeated exposure. H373: May cause damage to organs through prolonged or repeated exposure.

This information supplied in this Safety Data Sheet is designed only as guidance for the safe use and storage 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 only relates 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.

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