
SAFETY DATA SHEET

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

- Product Name: MC350-8

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.

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
-

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 2

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.
Causes skin irritation.
Toxic to aquatic life with long lasting effects.
Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
Contains chromium (VI). May produce an allergic reaction.
- 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.
IF exposed or concerned: Get medical advice/attention.
Use personal protective equipment as required.

SECTION 2: Hazards identification (....)

In case of fire: Use foam to extinguish.

2.3 Other hazards

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

- xylene
 - CAS Number: 1330-20-7
 - EC Number: 215-535-7
 - Concentration: 20-30%
 - Categories: Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2
 - Symbols: GHS02;GHS07
 - H Statements: H226;H332;H312;H315
 - Water Hazard Class (Official): 2
 - 2-methoxy-1-methylethyl acetate
 - CAS Number: 108-65-6
 - EC Number: 203-603-9
 - Concentration: 20-30%
 - Categories: Flam. Liq. 3
 - Symbols: GHS02
 - H Statements: H226
 - Water Hazard Class (Official):
 - Water Hazard Class (Company): Not Classified
 - lead chromate molybdate sulfate red; C.I. Pigment Red 104; [This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 77605.]
 - CAS Number: 12656-85-8
 - EC Number: 235-759-9
 - Concentration: 10-20%
 - Categories: Carc. 1B, Repr. Cat. 1A, STOT RE 2
 - Symbols: GHS08;GHS09
 - H Statements: H350;H360Df;H373;H400;H410
 - Water Hazard Class (Official): 2
 - ethylbenzene
 - CAS Number: 100-41-4
 - EC Number: 202-849-4
 - Concentration: 3-7%
 - 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)
 - Water Hazard Class (Official): 1
-

SECTION 4: First aid measures**4.1 Description of first aid measures**

SECTION 4: 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
If skin irritation occurs: Get medical advice/attention.
IF exposed or concerned: Get medical advice/attention.
- Ingestion
Do NOT induce vomiting.
IF exposed or concerned: Get medical advice/attention.
- Inhalation
IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- May cause irritation
- The ingestion of significant quantities may cause damage to central nervous system
- The ingestion of significant quantities may cause nausea/vomiting
- The ingestion of significant quantities may cause systemic effects

4.3 Indication of any immediate medical attention and special treatment needed

- IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
-

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- In case of fire: Use foam to extinguish.

5.2 Special hazards arising from the substance or mixture

- Flammable and Toxic

5.3 Advice for firefighters

- Wear suitable respiratory protection
-

SECTION 6: Accidental release measures

Spillage causes slippery surface

Vapours may ignite

6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation
- Evacuate the area
- Shut off all ignition sources
- Wear protective clothing as per section 8

6.2 Environmental precautions

- Avoid release to the environment.
- Do not empty into drains

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures (....)

- Collect spillage.
- Absorb spillage in inert material and shovel up
- Remove contaminated material to safe location for subsequent disposal

6.4 Reference to other sections

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Forms hazardous decomposition products
- Equipment should be of flameproof design
- Keep away from heat and sources of ignition
- Wash
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use personal protective equipment as required.
- Get medical advice/attention if you feel unwell.
- Dispose of contents/container to hazardous waste

7.2 Conditions for safe storage, including any incompatibilities

- Forms hazardous decomposition products
- Keep only in the original container in a cool, well ventilated place

7.3 Specific end use(s)

- Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
 - Do not spray on a naked flame or any incandescent material
-

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

C.I. Pigment Red 104

Acute inhalation - Systemic effects 0 <none>
Long-term - inhalation - Systemic effects 0.006 mg/m³

SECTION 8: Exposure controls/personal protection (...)**Ethylbenzene**Acute inhalation - Local effects : 293 mg/m³Long-term - inhalation - Systemic effects 77 mg/m³Long-term - dermal - Systemic effects 180 mg/m³**Xylene Acute inhalation -**Systemic effects 289 mg/m³Acute inhalation - Local effects 289 mg/m³Long-term - inhalation - Systemic effects 77 mg/m³

Long-term - dermal - Systemic effects 180 bw/day

Exposure Pattern - General population**2-methoxy-1-methylethyl acetate**Long-term - inhalation - Systemic effects 33 mg/m³Long-term - inhalation - Local effects 33 mg/m³Long-term - dermal - Systemic effects 320 mg/m³

Long-term - oral - Systemic effects 36 bw/day

EthylbenzeneLong-term - inhalation - Systemic effects 15 mg/m³Long-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

8.2 Exposure controls

- Ensure adequate ventilation
- Wear protective gloves/protective clothing/eye protection/face protection.
- 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.
- Wear suitable respiratory equipment when necessary. Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate.
- Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU).

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance: Red, Liquid
- Melting point - not applicable
- Boiling point - not known
- Flashpoint: 30°C Closed Cup
- Vapour density - not known
- Vapour pressure - not known

SECTION 9: Physical and chemical properties (....)

- Specific Gravity: 1.56 g/cm³
- Fat solubility - not known
- Partition coefficient : n-Octanol/water - not known
- Auto-ignition point - not known
- Viscosity: Not available
- Explosive Properties: Not available
- Solubility in water: Not available

9.2 Other information

- Volatile Organic Compound Content 632 g/l%
-

SECTION 10: Stability and reactivity**10.1 Reactivity**

- Keep away from heat and sources of ignition

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Keep away from heat and sources of ignition

10.5 Incompatible materials

- No special requirements

10.6 Hazardous decomposition products

- Burning produces obnoxious and irritating 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: May cause irritation to skin.
 - Serious eye damage/irritation: No data available
 - Respiratory or skin sensitisation: No data available.
 - Germ cell mutagenicity - No data is available on this product
 - Carcinogenic Effects: Carcinogen Cat 1B.
 - Reproductive Effects: Possible risk of harm to the unborn child, Possible risk of impaired fertility
 - STOT-single exposure: No data is available on this product.
 - STOT-repeated exposure: No data is available on this product.
 - Aspiration hazard
 - The Registry of Toxic Effects of Chemical (RTECS) contains toxicity data for components in this product.
 - 2-methoxy-1-methylethyl acetate
Oral Rat LD50: 8532 mg/kg Dermal Rabbit LD50: >5 gm/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 11: Toxicological information (....)

- 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
 - lead chromate molybdate sulfate red; C.I. Pigment Red 104; [This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 77605.]
Oral Rat LD50: >10000 mg/kg
-

SECTION 12: Ecological information

12.1 Toxicity

- lead chromate molybdate sulfate red; C.I. Pigment Red 104; [This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 77605.]
Fish LC50/96h: 2500.0000 mg/l Daphnia LC50/48h: 100

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

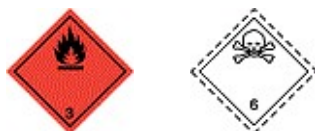
12.6 Other adverse effects

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container to hazardous waste
-

SECTION 14: Transport information

14.1 UN number

- UN No.: 1992

14.2 Proper Shipping Name

- Proper Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S.(Methoxy Propyl Acetate, C.I. Pigment Red 104)

14.3 Transport hazard class(es)

- Hazard Class: 3
 - Subsidiary risk: 6.1
-

SECTION 14: Transport information (....)

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

- ADR/RID
 - ADR Hazard Class: 36
 - Tunnel Code: (D/E)
 - IMDG
 - F-E S-D
 - No information available
 - IATA
 - Packing Instruction (Cargo): 366
 - Maximum Quantity: 220L
 - Packing Instruction (Passenger): 355
 - Maximum Quantity: 60L
-

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.
- Pigment Red (CAS: 10412656-85-8) is included among substances subject to authorization under All XIV of REACH, but as the mixture is used in scientific research and development activities it is exempted, The exemption is from Art. 56.3 of REACH.
- Water Hazard Class (Company): 2

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
 - All components are either, pre-registered, registered or exempt under REACH.
-

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. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H315: Causes skin irritation. H332: Harmful if inhaled. H350: May cause cancer. H360Df: May damage the unborn child. Suspected of damaging fertility. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

SECTION 16: Other information (....)

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.

--- end of safety datasheet ---
