

# SAFETY DATA SHEET

## UNI-ZINC MC

Version: 1

First edition date: 06/02/2013

91/155/EC (R/EC:1907/2006) - ISO 11014-1

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: UNI ZINC MC

Uses or/and applications: Paint

Product code nr: 8747

Supplier: Unica Special Coatings B.V.  
Hallenstraat 4  
5531 AB Bladel  
The Netherlands  
E-mail: jv.usc@planet.nl

Emergency phone number (to be used by the practising doctor): UK - National Poisons Information Service Phone: 44 / 191 22 5131  
NL- Nationaal Vergiftigingen Informatie Centrum: 31 (0)30 2748888

### 2. HAZARDS IDENTIFICATION

Most important hazards: Flammable.

Specific hazards: Repeated and prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s) contributing to the hazard:

- tetraethyl silicate; ethyl silicate - Id No: 014-005-00-0 - CAS no: 78-10-4 - EC no: 201-083-8  
Conc. wt.(%): 1 < C <= 5 - Classification: • R 10 • Xn; R 20 • Xi; R 36/37 •
- o-xylene [1]; p-xylene [2]; m-xylene [3]; xylene [4] - Id No: 601-022-00-9 - CAS no: 1330-20-7 - EC no: 215-535-7  
Conc. wt.(%): 1 < C <= 5 - Classification: • R 10 • Xn; R 20/21 • Xi; R 38 •
- modified MDI - CAS no: 53862-89-8  
Conc. wt.(%): 1 < C <= 5 - Symbol(s): Xn Xi - R-phrases: 20-36/37/38
- 4,4#-methylenediphenyl diisocyanate [1]; diphenylmethane-4,4#-diisocyanate [1]; 2,2#-methylenediphenyl diisocyanate [2]; diphenylmethane-2,2#-diisocyanate [2]; o-(p-isocyanatobenzyl)phenyl isocyanate [3]; diphenylmethane-2,4#-diisocyanate [3]; methylene - Id No: 615-005-00-9 - CAS no: 101-68-8 - EC no: 202-966-0  
Conc. wt.(%): 1 < C <= 5 - Classification: • Xn; R20•Xi; R36/37/38•R42/43•
- difenylmethaandiisocynaanaat, isomeren&homologen - CAS no: 9016-87-9  
Conc. wt.(%): 1 < C <= 5 - Symbol(s): Xn Xi - R-phrases: 20-36/37/38
- Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - - CAS no: \*64742-95-6  
Conc. wt.(%): 5 < C <= 10 - Symbol(s): Xi - R-phrases: 38
- 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - Id No: 603-014-00-0 - CAS no: 111-76-2 - EC no: 203-905-0  
Conc. wt.(%): 0 < C <= 1 - Classification: • Xn; R20/21/22•Xi; R36/38•
- 4-isocyanatosulphonyltoluene; tosyl isocyanate - Id No: 615-012-00-7 - CAS no: 4083-64-1 - EC no: 223-810-8  
Conc. wt.(%): 0 < C <= 1 - Classification: • R 14 • Xi; R 36/37/38 • R 42 •

### 4. FIRST AID MEASURES

General advice: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.  
For symptom description, see item 11.

Inhalation: - Take victim to fresh air, in a quiet place, in an half laying position and if necessary take medical advice.

Skin contact: - Take off immediately all contaminated clothing. Wash off with soap and plenty of water. If skin irritation persists, take medical advice.

Eye contact: - Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.

Ingestion: - Do not induce vomiting. Rinse mouth, do not drink anything, keep quiet, and go immediately to hospital or to a doctor.

### 5. FIRE-FIGHTING MEASURES

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Suitable extinguishing media:	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ), sand, earth.
Extinguishing media which must NOT be used for safety reasons:	Do not use water jet.
Specific method(s):	Cool containers / tanks with spray water if possible.
Specific fire hazard(s):	In case of fire, product decomposes in:: carbon oxides (CO and CO <sub>2</sub> ) and smokes. Concerning product toxicity, see item 11 and about product stability and reactivity see item 10.
Special protective equipment for fire-fighters:	Use a self-contained breathing apparatus and also a protective suit.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precaution(s):	Evacuate personnel to a safe area. Remove all sources of ignition. Ensure adequate ventilation. Concerning personal protective equipment to use, see item 8.
Environmental precaution(s):	Stop leak without risks if possible. Dike and contain spill. Do not allow material to contaminate ground water system. Concerning disposal elimination after cleaning, see item 13.
Method(s) for cleaning up:	Soak up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel). Shovel into suitable and closed container for disposal. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

### 7. HANDLING AND STORAGE

#### Handling

- Precaution(s):	Do not eat, drink and do not smoke in areas where product is used. Avoid all eyes and skin contact and do not breathe vapour and mist. Wear personal protective equipment (see item 8 ).
- Technical condition(s):	Explosion-free electrical equipment and lighting with earth. Do not use compressed air to fill, handle or work up. Avoid static electricity discharges.
- Safe handling advice(s):	Opened containers must be carefully closed and kept upright to avoid leakage.

#### Storage

- Precaution(s):	Keep container tightly closed and in a well-ventilated place.
- Storage condition(s):	Keep container tightly closed and at a temperature not exceeding (°C): 35 °C Keep away from sources of ignition - No smoking. Store in a well-ventilated place.
- Separation of incompatible product(s):	Keep away from: strong acids, strong bases and oxidising compounds.
- Packaging / tank material:	stainless steel, mild steel.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measure(s):	Ensure adequate ventilation, especially in confined areas.
Control parameter(s):	
- Exposure limit(s):	• tetraethyl silicate; ethyl silicate:MAC (TWA) ppm = 10 - MAC (TWA) mg/m <sup>3</sup> = 85 • o-xylene [1]; p-xylene [2]; m-xylene [3]; xylene [4]:MAC (TWA) ppm = 50 - MAC (TWA) mg/m <sup>3</sup> = 221 - MAC (STEL) ppm = 100 - MAC (STEL) mg/m <sup>3</sup> = 442 • 4,4#-methylenediphenyl diisocyanate [1]; diphenylmethane-4,4#-diisocyanate [1]; 2,2#-methylenediphenyl diisocyanate [2] ; diphenylmethane-2,2#-diisocyanate [2]; o-(p-isocyanatobenzyl)phenyl isocyanate [3]; diphenylmethane-2,4#-diisocyanate [3]; methylene:MAC (TWA) ppm = 0,005 - MAC (TWA) mg/m <sup>3</sup> = 0,051 • 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve:MAC (TWA) ppm = 20 - MAC (TWA) mg/m <sup>3</sup> = 98 - MAC (STEL) ppm = 50 - MAC (STEL) mg/m <sup>3</sup> = 246
Personal protection equipment:	
- Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment. (breathing apparatus with filter A )
- Hand protection:	Wear suitable gloves.

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- Skin and body protection: Wear suitable protective clothing
- Eye protection: safety glasses or face shield
- Hygiene measure(s): Keep away from food, drink and animal feed. Keep away from food and drink.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### General information

- Physical state / form: liquid
- Colour: grey
- Odour: characteristic

#### Important health,safety and environmental information

- PH: Not applicable.
- Boiling point/range: Not determined.
- Flash point: > 23°C
- Explosion limits: No data available.
- Relative density (water = 1): +- 2,85 g/cm<sup>3</sup>
- Viscosity: 95 KU units
- Water solubility: Not applicable.
- Fat solubility: Not applicable.
- Solvent solubility: soluble in most organic solvents
- Other data: VOC =30 g/L  
EUROPEN DIRECTORY 2004/42/II A (i)[600g/L(2007)/500g/L(2010)]

### 10. STABILITY AND REACTIVITY

- Stability: Stable in use and storage conditions as recommended in item 7.
- Condition(s) to avoid: Do not expose at temperatures above 35 °C
- Material(s) to avoid: Avoid certain plastics which are soluble in product.  
Reacts violently with:: strong acids, strong bases and oxidising compounds.
- Hazardous decomposition products: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

### 11. TOXICOLOGICAL INFORMATION

- General information(s): Periodical medical test is recommended in function of exposition measure.
- Acute toxicity
- Inhalation: Irritating to the respiratory system, may cause throat pain and cough.
- Skin contact: Intensive skin contact, may cause skin problems (contact dermatitis).
- Eyes contact: mild eye irritation (pain, redness)
- Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
- Sensitisation: May cause sensitisation by inhalation.
- Chronic toxicity: Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.
- Specific effect(s): Use of alcoholic beverages may enhance toxic effects.

### 12. ECOLOGICAL INFORMATION

- General information(s): There is no data available on the product itself.
- Persistence and degradability: Product has only a limited biodegradability in soil and water.
- Environmental toxicity: Product may not flow into sewer or superficial water.

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Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

Waste / unused products: Collect all waste in suitable and labelled containers and dispose according to local legislation.

Contaminated packaging: Do not burn, or use a cutting torch on the empty drum. Offer rinsed packaging material to local recycling facilities.

Further Information(s):

## 14. TRANSPORT INFORMATION

General information(s): Transport followed ADR, IMDG, IATA

UN N°: 1263

Land (Road / Railway: ADR/RID)

- Proper shipping name: PAINT  
- Class: 3  
- Verpakkingsgroep: III  
- TREM-CARD code: klas 3  
- ADR/RID-Labels: N° 3  
- Classification code: 3 III

Sea (IMDG)

- Proper shipping name: PAINT  
- Class: 3  
- Packaging group: III  
- EmS number: 3-05

Air (ICAO/IATA)

- Proper shipping name: PAINT  
- ICAO/IATA class: 3  
- Packing group: III

## 15. REGULATORY INFORMATION

Labelling: According to european directives on classification, packaging and labelling of dangerous substances 67/548/ EC. Using the calculation method 99/45 EC.

EC number: Not applicable.

Symbol(s): Xn - Harmful



R-phrases(s): 10 Flammable.  
36/37/38 Irritating to eyes, respiratory system and skin.  
42/43 May cause sensitization by inhalation and skin contact.

S-phrases(s): 23 Do not breathe gas / fumes / vapour / spray.  
24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
51 Use only in well-ventilated areas.

Further information(s): Contains isocyanates. See information supplied by the manufacturer. Contains 4,4#-methylenediphenyl diisocyanate [1]; diphenylmethane-4,4#-diisocyanate [1]; 2,2#-methylenediphenyl diisocyanate [2]; diphenylmethane-2,2#-diisocyanate [2]; o-(p-isocyanatobenzyl)phenyl isocyanate [3]; diphenylmethane-2,4#-diisocyanate [3]; methylene, 4-isocyanatosulphonyltoluene; tosyl isocyanate. May produce an allergic reaction.

## 16. OTHER INFORMATION

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Accordinging legislation(s):	This safety data sheet is in compliance with directives and adaptings: 2001/58 , 91/155 , 67/548 ,99/45
Item nr 2 : R-phrase(s)	R10 Flammable. R20 Harmful by inhalation. R36/37 Irritating to eyes and respiratory system. R20/21 Harmful by inhalation and in contact with skin. R38 Irritating to skin. R36/37/38 Irritating to eyes, respiratory system and skin. R42/43 May cause sensitization by inhalation and skin contact. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R36/38 Irritating to eyes and skin. R14 Reacts violently with water. R42 May cause sensitization by inhalation.
Important remarks:	Information in this safety data sheet is based on actual knowledge in our possession and our experience. It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users. No liability will be accepted (except as otherwise provided by law) arising out of the use of information supplied in this data sheet.
Uses or/and applications:	Paint
Restrictions:	This information relates to the specific material designated and may not be valid in combination with other product(s).
History	
- First edition date:	26/02/2013
- Version:	1
Written by:	JV