Safety Data Sheet
MasterSeal CR 100 PART A also TF100 PTA

1. Identification

Product identifier used on the label

MasterSeal CR 100 PART A also TF100 PTA

Recommended use of the chemical and restriction on use
Recommended use*: for industrial and professional users

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Synonyms: Not Available

2. Hazards Identification


Classification of the product

| Acute Tox. | 4  (Inhalation - mist) | Acute toxicity |
| Skin Corr./Irrit. | 2 | Skin corrosion/irritation |
| Eye Dam./Irrit. | 2A | Serious eye damage/eye irritation |
| Resp. Sens. | 1 | Respiratory sensitization |
| Skin Sens. | 1 | Skin sensitization |
| Carc. | 2 | Carcinogenicity |
| STOT SE | 3 (irritating to respiratory system) | Specific target organ toxicity — single exposure |
| STOT RE | 2 (by inhalation) | Specific target organ toxicity — repeated |
Label elements

Pictogram:

Signal Word:
Danger

Hazard Statement:
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs (Olfactory organs) through prolonged or repeated exposure (inhalation).

Precautionary Statements (Prevention):
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust/gas/mist/vapours.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P284 [In case of inadequate ventilation] wear respiratory protection.
P272 Contaminated work clothing should not be allowed out of the workplace.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P341 + P311 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash before reuse.
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Storage):
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Precautionary Statements (Disposal):
Safety Data Sheet
MasterSeal CR 100 PART A also TF100 PTA

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-68-8</td>
<td>&gt;= 25.0 - &lt; 50.0%</td>
<td>Diphenylmethane-4,4'-diisocyanate (MDI)</td>
</tr>
<tr>
<td>26447-40-5</td>
<td>&gt;= 10.0 - &lt; 15.0%</td>
<td>Methyleneedianiline diisocyanate</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

**General advice:**
First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

**If inhaled:**
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**
After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

**If in eyes:**
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**
Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

**Most important symptoms and effects, both acute and delayed**

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
Hazards: No applicable information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physician**
**Treatment:** Treat according to symptoms (decontamination, vital functions), no known specific antidote.
5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Advice for fire-fighters
Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up
For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.
For large amounts: Pump off product.

7. Handling and Storage

Precautions for safe handling
Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Conditions for safe storage, including any incompatibilities
No applicable information available.

Suitable materials for containers: tinned carbon steel (Tinplate)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.
8. Exposure Controls/Personal Protection

Components with occupational exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>CLV</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphenylmethane-4,4'-'diisocyanate (MDI)</td>
<td>0.02 ppm 0.2 mg/m³</td>
<td>0.02 ppm 0.2 mg/m³</td>
<td>TWA value 0.005 ppm</td>
</tr>
</tbody>
</table>

Advice on system design:
No applicable information available.

Personal protective equipment

Respiratory protection:
When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place.

Hand protection:
Wear chemical resistant protective gloves. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Tightly fitting safety goggles (chemical goggles).

Body protection:
Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:
Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour:</td>
<td>slight odour</td>
</tr>
<tr>
<td>Odour threshold:</td>
<td>No applicable information</td>
</tr>
<tr>
<td>Colour:</td>
<td>light brown</td>
</tr>
<tr>
<td>pH value:</td>
<td>neutral to slightly alkaline</td>
</tr>
<tr>
<td>Melting temperature:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Boiling point:</td>
<td>approx. 200 °C</td>
</tr>
<tr>
<td>Sublimation point:</td>
<td>No applicable information</td>
</tr>
<tr>
<td>Flash point:</td>
<td>negligible</td>
</tr>
<tr>
<td>Flammability:</td>
<td>not highly flammable</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density:</td>
<td>approx. 1.12 g/cm³</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Thermal decomposition:</td>
<td>No decomposition if stored and handled as prescribed/indicated.</td>
</tr>
<tr>
<td>Viscosity, dynamic:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
Corrosive effects to metal are not anticipated.

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid
See MSDS section 7 - Handling and storage.

Incompatible materials
strong acids, strong bases, strong oxidizing agents, strong reducing agents

Hazardous decomposition products
Decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Inhalation may cause respiratory sensitization resulting in asthma-like symptoms such as difficulty breathing. Inhalation may cause respiratory tract irritation and pulmonary inflammation.

Oral
No applicable information available.

Inhalation
No applicable information available.
Dermal
No applicable information available.

**Irritation / corrosion**
Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

**Sensitization**
Assessment of sensitization: The substance may cause sensitization of the respiratory tract. May cause sensitization by skin contact. The product has not been tested. The statement has been derived from the properties of the individual components.

**Chronic Toxicity/Effects**

**Repeated dose toxicity**
Assessment of repeated dose toxicity: Repeated exposure may affect certain organs.

**Genetic toxicity**
Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

**Carcinogenicity**
Assessment of carcinogenicity: May cause cancer.

**Reproductive toxicity**
Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

**Teratogenicity**
Assessment of teratogenicity: The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.

**Other Information**
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

**Symptoms of Exposure**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

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**12. Ecological Information**

**Toxicity**

Aquatic toxicity
Assessment of aquatic toxicity:
Based on available Data, the classification criteria are not met. There is a high probability that the product is not acutely harmful to aquatic organisms.

**Persistence and degradability**

Assessment biodegradation and elimination (H2O)
Inherently biodegradable. The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants. The polymer component of the product is poorly biodegradable.

**Bioaccumulative potential**

Assessment bioaccumulation potential
Discharge into the environment must be avoided.

**Mobility in soil**

Assessment transport between environmental compartments
No data available.

**Additional information**

Other ecotoxicological advice:
Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. **Disposal considerations**

**Waste disposal of substance:**
Dispose of in accordance with national, state and local regulations. Residues should be disposed of in the same manner as the substance/product. Do not discharge into drains/surface waters/groundwater.

**Container disposal:**
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. **Transport Information**

**Land transport**
USDOT
Not classified as a dangerous good under transport regulations

**Sea transport**
IMDG
Not classified as a dangerous good under transport regulations

**Air transport**
IATA/ICAO
Not classified as a dangerous good under transport regulations

15. **Regulatory Information**

**Federal Regulations**

**Registration status:**
Chemical TSCA, US released / listed
Safety Data Sheet
MasterSeal CR 100 PART A also TF100 PTA

Revision date: 2015/05/29
Page: 9
Version: 2.0

EPCRA 311/312 (Hazard categories): Acute; Chronic

EPCRA 313:
<table>
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<th>CAS Number</th>
<th>Chemical name</th>
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<tbody>
<tr>
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<td>Diphenylmethane-4,4’-diisocyanate (MDI)</td>
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State regulations

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td>101-68-8</td>
<td>Diphenylmethane-4,4’-diisocyanate (MDI)</td>
</tr>
</tbody>
</table>

NFPA Hazard codes:
Health: 2
Fire: 1
Reactivity: 0
Special: 16.

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2015/05/29

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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