Safety Data Sheet

according to Regulation (EC) No 1907/2006

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

1.1. Product identifier
CP-Elastic 9550 Cartridge Part B

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

Use of the substance/mixture
Chemisches Produkt für Bau und Industrie

1.3. Details of the supplier of the safety data sheet
Company name: Chesterton International GmbH
Street: Am Lenzenfleck 23
Place: DE-85737 Ismaning GERMANY
Telephone: +49 89 99 65 46 - 0
Telefax: +49 89 99 65 46 - 50
e-mail: eu-sds@chesterton.com
e-mail (Contact person): eu-sds@chesterton.com
Internet: www.chesterton.com
Responsible Department: eu-sds@chesterton.com

1.4. Emergency telephone number:
+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
- Acute toxicity: Acute Tox. 4
- Skin corrosion/irritation: Skin Irrit. 2
- Serious eye damage/eye irritation: Eye Irrit. 2
- Respiratory or skin sensitisation: Resp. Sens. 1
- Respiratory or skin sensitisation: Skin Sens. 1
- Carcinogenicity: Carc. 2
- Specific target organ toxicity - single exposure: STOT SE 3
- Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:
- Harmful if inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.
- Suspected of causing cancer.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Regulation (EC) No. 1272/2008
Safety Data Sheet

according to Regulation (EC) No 1907/2006

CP-Elastic 9550 Cartridge Part B

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Hazard components for labelling
methylene diphenyl diisocyanate

Signal word:
Danger

Pictograms:

Hazard statements

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

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P271 Use only outdoors or in a well-ventilated area.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P308+P313 IF exposed or concerned: Get medical advice/attention.

Special labelling of certain mixtures
EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EC No</td>
<td>Index No</td>
</tr>
<tr>
<td></td>
<td>GHS Classification</td>
<td>REACH No</td>
</tr>
<tr>
<td>26447-40-5</td>
<td>methylenediphenyl diisocyanate</td>
<td>75 - &lt;100 %</td>
</tr>
<tr>
<td></td>
<td>247-714-0</td>
<td>615-005-00-9</td>
</tr>
</tbody>
</table>

Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H335 H317 H337

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
General information
Remove affected person from the danger area and lay down. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation
Remove casualty to fresh air and keep warm and at rest.

After contact with skin
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin irritation, consult a physician. Call a doctor if you feel unwell.

After contact with eyes
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed
Allergic reactions

4.3. Indication of any immediate medical attention and special treatment needed
First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx).

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
See protective measures under point 7 and 8.
Provide adequate ventilation.
Personal protection equipment: see section 8
6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Clean contaminated articles and floor according to the environmental legislation. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Take up mechanically, placing in appropriate containers for disposal.
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

See protective measures under point 7 and 8.
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Wear personal protection equipment (refer to section 8).
Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin, eyes and clothes.
Keep container tightly closed.
Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

Reachts with: water, Humidity. Formation of: Carbon dioxide Never use pressure to empty container.
Keep/Store only in original container.

Advice on protection against fire and explosion
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Further information on handling
Wash hands before breaks and after work. Used working clothes should not be worn outside the work area.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container. Keep/Store only in original container. Protect against direct sunlight.

Hints on joint storage
Keep away from:
Food and feedingstuffs
Oxidising agent
Amines
Alcohol
water
Strong acids, Strong alkali

Further information on storage conditions
Protect against:
Safety Data Sheet

according to Regulation (EC) No 1907/2006

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls
Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Protective and hygiene measures
Avoid contact with skin, eyes and clothes. Use protective skin cream before handling the product. Take off immediately all contaminated clothing. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Eye/face protection
Suitable eye protection:
- goggles
- Face protection shield

Hand protection
Suitable gloves type:
- Butyl caoutchouc (butyl rubber) EN ISO 374
- NBR (Nitrile rubber)
- Wear cotton undermitten if possible.

Skin protection
For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Respiratory protection
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls
Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>transparent - yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
</tbody>
</table>
CP-Elastic 9550 Cartridge Part B

Test method

pH-Value: No data available

Changes in the physical state
Melting point: No data available
Initial boiling point and boiling range: > 200 °C
Sublimation point: No data available
Softening point: No data available
Pour point: No data available
Flash point: > 200 °C

Flammability
Solid: No data available
Gas: No data available

Explosive properties
No information available.
Lower explosion limits: No data available
Upper explosion limits: No data available
Ignition temperature: > 530 °C

Auto-ignition temperature
Solid: No data available
Gas: No data available


Oxidizing properties
No information available.
Vapour pressure: No data available
Density (at 23 °C): 1.2 g/cm³
Water solubility: practically insoluble

Solubility in other solvents
No information available.
Partition coefficient: No data available
Viscosity / dynamic: No data available
Vapour density: No data available
Evaporation rate: No data available

9.2. Other information
No information available.

SECTION 10: Stability and reactivity
### 10.1. Reactivity
Reacts with: Water

### 10.2. Chemical stability
No decomposition if used according to specifications.

### 10.3. Possibility of hazardous reactions
Keep away from: oxidizing agents, Alcohol, water, Strong acids, Strong alkali, Amines

Due to gaseous decomposition products, overpressure can occur in tightly sealed containers. Due to gaseous decomposition products, overpressure can occur in tightly sealed containers.

#### 10.4. Conditions to avoid
In case of warming: > 200 °C Thermal decomposition

#### 10.5. Incompatible materials
Exothermic reaction with: Amines Alcohol

#### 10.6. Hazardous decomposition products
No data available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity
Harmful if inhaled.

**ATEmix calculated**
- ATE (inhalation vapour) 11,11 mg/l; ATE (inhalation aerosol) 1,515 mg/l

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>26447-40-5</td>
<td>methylenediphenyl diisocyanate</td>
<td>inhalation vapour</td>
<td>ATE</td>
<td>11 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalation aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Irritation and corrosivity
Causes skin irritation.
Causes serious eye irritation.

#### Sensitising effects
Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (methylenediphenyl diisocyanate)
May cause an allergic skin reaction. (methylenediphenyl diisocyanate)
After sensitization, severe allergic reactions may occur in later exposure to very low levels

#### Carcinogenic/mutagenic/toxic effects for reproduction
Suspected of causing cancer. (methylenediphenyl diisocyanate)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure
  May cause respiratory irritation. (methylenebisphenyl diisocyanate)

STOT-repeated exposure
  May cause damage to organs through prolonged or repeated exposure. (methylenebisphenyl diisocyanate)

Aspiration hazard
  Based on available data, the classification criteria are not met.

Practical experience
  Observations relevant to classification
    Switzerland

SECTION 12: Ecological information

12.1. Toxicity
  No information available.

12.2. Persistence and degradability
  Poorly biodegradable.

12.3. Bioaccumulative potential
  No information available.

12.4. Mobility in soil
  No information available.

12.5. Results of PBT and vPvB assessment
  The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects
  No information available.

Further information
  Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations
  Dispose of waste according to applicable legislation.

Contaminated packaging
  Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:
  No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:
  No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):
  No dangerous good in sense of this transport regulation.

14.4. Packing group:
  No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no
Danger releasing substance: Poly(oxypropylen)diamin; Diethylmethylbenzoldiamin

14.6. Special precautions for user

No information available.

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

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):
Entry 56: methylenediphenyl disocyanate

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
Safety Data Sheet

according to Regulation (EC) No 1907/2006

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(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4; H332</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Irrit. 2; H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2; H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Resp. Sens. 1; H334</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1; H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Carc. 2; H351</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 3; H335</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 2; H373</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
EUH204 Contains isocyanates. May produce an allergic reaction.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)