1 Identification

Product identifier

Trade name: *De Neef Cut PUR*Re*

SDS ID Number: 2866

Relevant identified uses of the substance or mixture, and uses advised against:

Specialty construction product. Not intended for other uses.

Product category: Concrete Admixture

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

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.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

![Danger symbol]

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.  
Suspected of damaging fertility or the unborn child.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure. 

**Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wear protective gloves/protective clothing/eye protection/face protection. 
[In case of inadequate ventilation] wear respiratory protection. 
If on skin: Wash with plenty of water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.  
Call a poison center/doctor if you feel unwell.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  

**NFPA ratings (scale 0 - 4)**  
Health = 2  
Fire = 1  
Reactivity = 0  

**HMIS-ratings (scale 0 - 4)**  
HEALTH Health = *2  
FIRE Flammability = 1  
REACTIVITY Reactivity = 0  

**Other hazards**  
Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.  

---  
**3 Composition/information on ingredients**  
**Chemical characterization:** Mixture  
**Description:** Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.  

**Hazardous components:**  
<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>9016-87-9 Diphenylmethanediisocyanate, isomers and homologues</td>
<td>30-&lt;40%</td>
</tr>
<tr>
<td>6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate</td>
<td>30-&lt;40%</td>
</tr>
<tr>
<td>101-68-8 Diphenylmethane-4,4'-di-isocyanate</td>
<td>22-&lt;30%</td>
</tr>
</tbody>
</table>

**Additional information:** Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.  

---  
**4 First-aid measures**  
**Description of first aid measures**  
**General information:** Get medical advice/attention if you feel unwell.  
**After inhalation:**  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. 
IF INHALED: Call a doctor if you feel unwell.  

(Cont. from page 1)
### 5 Fire-fighting measures

**Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced. Combustion products may include toxic gases such as carbon monoxide and smoke.

**Advice for firefighters**
- **Protective equipment**: Wear personal protective equipment.
- **Additional information**: Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away. Use respirator protective device against the effects of fumes/dust/aerosol.

**Methods and material for containment and cleaning up:**
Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

**Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

### 7 Handling and storage

**Handling:**
- **Precautions for safe handling**
  - Prevent formation of aerosols.
  - Avoid contact with eyes, skin and clothing.
  - Do not take internally.
  - Practice good personal hygiene to avoid ingestion.
  - Use only with adequate ventilation.
  - Wash clothing before reuse.
  - FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.
Trade name: De Neef Cut PURE

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:
Information about storage in one common storage facility: Keep respirator available.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-68-8 Diphenylmethane-4,4'-di-isocyanate</td>
</tr>
<tr>
<td>PEL (USA) Ceiling limit value: 0.2 mg/m³, 0.02 ppm</td>
</tr>
<tr>
<td>REL (USA) Long-term value: 0.05 mg/m³, 0.005 ppm</td>
</tr>
<tr>
<td>Ceiling limit value: 0.2* mg/m³, 0.02* ppm</td>
</tr>
<tr>
<td>*10-min</td>
</tr>
<tr>
<td>TLV (USA) Long-term value: 0.051 mg/m³, 0.005 ppm</td>
</tr>
</tbody>
</table>

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Appropriate engineering controls: Local exhaust ventilation is recommended.

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Due to the presence of isocyanate, supplied air respirators must be worn whenever the product is applied in poorly ventilated areas unless local exhaust will maintain exposures below acceptable limits. A chemical cartridge respirator with organic vapor cartridge is required when local exhaust is unavailable or inadequate to control exposures below required limits. When supplied-air respirators are not available or use is not practical, an air-purifying respirator may be an acceptable alternative if the recommendations below are followed:

Use of fans to improve air circulation and general ventilation or exhaust ventilation to remove isocyanate vapors when working in confined spaces.

The use of an air-purifying respirator fitted with organic vapor cartridge and a well managed cartridge change schedule. Due to the low exposure limits and poor odor warning properties, cartridges should be replaced on a daily basis at a minimum.

To complement the above, a viable isocyanate measurement system should be used to monitor workplace levels.

Isocyanates (contained in Part B and in mixed components) are known as respiratory sensitisers.

Atmospheric levels should be maintained below the exposure guideline.

Atmospheric levels should be maintained below the exposure guideline. When atmospheric levels may exceed the exposure guideline, use an approved full-face, air-purifying respirator equipped with an organic vapor sorbent and a particle filter. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate prefilter, type AP2.

For spray applications use a positive-pressure air-supplying respirator (air line or self-contained breathing apparatus). For emergency response or for situations where the atmospheric level is unknown, use an approved positive-pressure self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply.

For hand applications, unless monitoring data confirms that respiratory protection is not necessary, use an approved half-face air purifying respirator equipped with an organic vapor sorbent filter (EU Type A, NIOSH Black, etc.) and particulate pre-filter (EU Type P2, NIOSH N95, etc.).

For emergency response, an approved positive pressure Self Contained Breathing Apparatus (SCBA) or positive pressure air line with auxiliary self-contained air supply is recommended.

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.
Material of gloves: Rubber or other impervious gloves should be worn to prevent skin contact.

Eye protection:

- Safety glasses with side shield protection.
- Protective goggles.

A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

- Protective work clothing
- Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance: Liquid</td>
</tr>
<tr>
<td>Form:</td>
</tr>
<tr>
<td>Color: According to product specification</td>
</tr>
<tr>
<td>Odor: Characteristic</td>
</tr>
<tr>
<td>Odor threshold: Not applicable.</td>
</tr>
<tr>
<td>pH-value (-): Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Change in condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/Melting range:</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
</tr>
<tr>
<td>Flash point: 100 °C (212 °F)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability (solid, gaseous):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ignition temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Decomposition temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable under normal storage conditions.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Auto igniting:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Danger of explosion:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product does not present an explosion hazard.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explosion limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower: Not determined.</td>
</tr>
<tr>
<td>Upper: Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vapor pressure at 20 °C (68 °F):</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 hPa</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Density: (-):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relative density</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vapor density</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Evaporation rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility in / Miscibility with</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water: Not miscible or difficult to mix.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Partition coefficient (n-octanol/water):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Viscosity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic: Not determined.</td>
</tr>
</tbody>
</table>
10 Stability and reactivity

Reactivity
Stable under normal conditions.
No further relevant information available.

Chemical stability
Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions
No dangerous reactions known.
No further relevant information available.

Conditions to avoid
No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Delayed and immediate effects and chronic effects from short or long term exposure
Suspected of damaging fertility or the unborn child.

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>9016-87-9 Diphenylmethanediisocyanate, isomers and homologues</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalation</td>
</tr>
<tr>
<td>101-68-8 Diphenylmethane-4,4’-di-isocyanate</td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalation</td>
</tr>
<tr>
<td>LC50, 1h</td>
</tr>
</tbody>
</table>

Primary irritant effect:
on the skin: Causes skin irritation.

on the eye: Causes serious eye irritation.

inhalation: Harmful if inhaled.
May cause respiratory irritation.

Ingestion: May cause damage to organs through prolonged or repeated exposure.

Sensitization:
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Additional toxicological information:
Suspected of damaging fertility or the unborn child.
Suspected of causing cancer.

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity:
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
<th>IARC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>9016-87-9 Diphenylmethanediisocyanate, isomers and homologues</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>101-68-8 Diphenylmethane-4,4'-di-isocyanate</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

NTP (National Toxicology Program)
K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed.

### 12 Ecological information

**Toxicity**

Aquatic toxicity: No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

**Additional ecological information:**

General notes: Not known to be hazardous to water.

**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**Other adverse effects** No further relevant information available.

### 13 Disposal considerations

**Disposal methods:**

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.

### 14 Transport information

**UN-Number**

DOT, IMDG, IATA: Not applicable.
### 15 Regulatory information

**SARA (Superfund Amendments and Reauthorization Act)**

**Section 302/304 (extremely hazardous substances):**
None of the ingredients is listed.

**Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Ingredient Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>9016-87-9</td>
<td>Diphenylmethanediisocyanate, isomers and homologues</td>
<td>37.5%</td>
</tr>
<tr>
<td>101-68-8</td>
<td>Diphenylmethane-4,4'-di-isocyanate</td>
<td>22.5%</td>
</tr>
</tbody>
</table>

**SARA Section 312/Tier I & II Hazard Categories:**
- Health Hazard - Carcinogenicity
- Health Hazard - Acute toxicity (any route of exposure)
- Health Hazard - Reproductive toxicity
- Health Hazard - Skin Corrosion or Irritation
- Health Hazard - Respiratory or Skin Sensitization
- Health Hazard - Serious eye damage or eye irritation
- Health Hazard - Specific target organ toxicity (single or repeated exposure)

**North America Chemical Inventory Status**

**TSCA (Toxic Substances Control Act - United States):**
All ingredients are listed or exempt from listing unless otherwise noted below.

**CEPA (Canadian DSL):**
All ingredients are listed or exempt from listing unless otherwise noted below.

**Right to Know Ingredient Disclosure:**
- Castor oil, CAS 8001-79-4
- Propyldiynetrimethanol, propoxylated, CAS 25723-16-4

**California Proposition 65:** (Substances <0.1% unless noted in Section 3)

**Chemicals known to cause cancer:**
None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**
None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**
None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**
None of the ingredients are listed.
Carcinogenicity Categories

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
- Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable
  None of the ingredients are listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)
  None of the ingredients are listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.
  If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

The first date of preparation 11/16/2017

Number of revision times and the latest revision date 1.1 / 04/23/2020