1 Identification

Product identifier

Trade name: Adcor Injection Grout

SDS ID Number: 2733

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

Waterproofing.
Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
6 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.
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

GHS07
GHS08

Danger

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.

Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
[In case of inadequate ventilation] wear respiratory protection.
Wear eye protection / face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.

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

HMIS-ratings (scale 0 - 4)

其他危害

结果的PBT和vPvB评估

PBT: 不适用
vPvB: 不适用

*3 Composition/information on ingredients

化学特性: 混合物

描述: 混合物的有害物质(如果)列出以下含有额外非有害物质的有害物质。有害成分:

<table>
<thead>
<tr>
<th>化合物编号</th>
<th>化合物名称</th>
<th>含量</th>
</tr>
</thead>
<tbody>
<tr>
<td>26447-40-5</td>
<td>甲苯二异氰酸酯, 混合物的同系物</td>
<td>20-25%</td>
</tr>
<tr>
<td>101-68-8</td>
<td>二苯甲烷-4,4'-二异氰酸酯</td>
<td>1.0-3.0%</td>
</tr>
</tbody>
</table>

其他信息: 非有害物质可能在第15节列出; 右知披露。

*4 First-aid measures

急救措施描述

一般信息: 如感不适,请寻求医疗建议。

吸入后:

提供新鲜空气。如有必要,提供人工呼吸。保持患者温暖。如有症状,请咨询医生。

皮肤接触后:

立即用肥皂或温和洗涤剂和水清洗受污染的皮肤。如果这种化学物质浸湿衣服,立即脱下衣服并清洗皮肤。
43.2.6 After eye contact:
Rinse cautiously with water for several minutes.
Seek immediate medical advice.

After swallowing:
Rinse mouth.
Do NOT induce vomiting.
Do not induce vomiting; immediately call for medical help.
Never give anything by mouth to an unconscious person.

Information for doctor:
Most important symptoms and effects, both acute and delayed
Allergic reactions
Irritating to eyes.

Information for doctor:
Most important symptoms and effects, both acute and delayed
Allergic reactions
Irritating to eyes.
Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture
No further relevant information available.

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.

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.
Dispose contaminated material as waste according to section 13 of the SDS.

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
Open and handle receptacle with care.
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.
Avoid contact with skin.
Avoid contact with eyes.
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: No special measures required.

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)</td>
</tr>
<tr>
<td>REL (USA)</td>
</tr>
<tr>
<td>Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min</td>
</tr>
<tr>
<td>TLV (USA)</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.

Store protective clothing separately.

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 vapour 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 MDI vapours when working in confined spaces.

The use of an air-purifying respirator fitted with organic vapour cartridge and a well managed cartridge change schedule. Due to the low exposure limits and poor odour 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. When atmospheric levels may exceed the exposure guideline, use an approved full-face, air-purifying respirator equipped with an organic vapour sorbent and a particle filter. Use the following CE approved air-purifying respirator: Organic vapour 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.

Protection of hands: Rubber or other impervious gloves should be worn to prevent skin contact.
Eye protection:

Safety glasses with side shield protection.
A face shield should also be worn if there is potential exposure to splash or spray.
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

General Information
Appearance: Liquid
Form: Liquid
Color: According to product specification
Odor: Characteristic
Odor threshold: Not determined.

pH-value (~):
Not determined.

Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: >100 °C (>212 °F)
Flash point: >100 °C (>212 °F)

Flammability (solid, gaseous):
Not applicable.

Decomposition temperature:
Not determined.
Auto igniting:
Product is not selfigniting.
Danger of explosion:
Product does not present an explosion hazard.

Explosion limits:
Lower: Not determined.
Upper: Not determined.
VOC Content (max):
Not determined.

Vapor pressure:
Not determined.
Density: (~)
Not determined.
Relative density
Not determined.
Vapor density
Not determined.
Evaporation rate
Not determined.

Solubility in / Miscibility with
Water: Not miscible or difficult to mix.
43.2.6 Partition coefficient (n-octanol/water): Not determined.

Viscosity:
- Dynamic: Not determined.
- Kinematic: Not determined.
- Molecular weight: Not applicable.

Other information: No further relevant information available.

10 Stability and reactivity

Reactivity: Stable under normal conditions.

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

Possibility of hazardous reactions: 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:
May cause damage to organs through prolonged or repeated exposure.

Information on toxicological effects:

Acute toxicity:

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
<th>101-68-8 Diphenylmethane-4,4'-di-isocyanate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>&gt; 10000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>&gt; 9400 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalation LC50, 4h</td>
<td>0.49 mg/l (rat)</td>
</tr>
</tbody>
</table>

Primary irritant effect:
- on the skin: Causes skin irritation.
- on the eye: Causes serious eye irritation.
- inhalation: Harmful if inhaled. Causes damage to organs.

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 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

| 101-68-8 Diphenylmethane-4,4'-di-isocyanate |
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

Waste treatment methods Comply with Federal, State and local regulations.
Recommendation:

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

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>DOT, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>DOT, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>DOT, IMDG, IATA</td>
<td></td>
</tr>
</tbody>
</table>
**Trade name: Adcor Injection Grout**

<table>
<thead>
<tr>
<th>Environmental hazards:</th>
<th>Marine pollutant:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special precautions for user</th>
<th>Not applicable.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Transport/Additional information:</th>
<th>Not classified as a dangerous good for transport by road, rail or air.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>DOT</th>
<th>Remarks:</th>
<th>Not Regulated.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>UN &quot;Model Regulation&quot;:</th>
<th>Not applicable.</th>
</tr>
</thead>
</table>

### 15 Regulatory information

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

<table>
<thead>
<tr>
<th>Section 302/304 (extremely hazardous substances):</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-68-8 Diphenylmethane-4,4'-di-isocyanate 1.8%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SARA Section 312/Tier I &amp; II Hazard Categories:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard - Carcinogenicity</td>
</tr>
<tr>
<td>Health Hazard - Acute toxicity (any route of exposure)</td>
</tr>
<tr>
<td>Health Hazard - Skin Corrosion or Irritation</td>
</tr>
<tr>
<td>Health Hazard - Respiratory or Skin Sensitization</td>
</tr>
<tr>
<td>Health Hazard - Serious eye damage or eye irritation</td>
</tr>
<tr>
<td>Health Hazard - Specific target organ toxicity (single or repeated exposure)</td>
</tr>
</tbody>
</table>

**North America Chemical Inventory Status**

<table>
<thead>
<tr>
<th>TSCA (Toxic Substances Control Act - United States):</th>
</tr>
</thead>
<tbody>
<tr>
<td>All ingredients are listed or exempt from listing unless otherwise noted below.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CEPA (Canadian DSL):</th>
</tr>
</thead>
<tbody>
<tr>
<td>All ingredients are listed or exempt from listing unless otherwise noted below.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Right to Know Ingredient Disclosure:</th>
</tr>
</thead>
<tbody>
<tr>
<td>105-76-0 dibutyl maleate</td>
</tr>
<tr>
<td>Modified MDI</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemicals known to cause cancer:</td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause reproductive toxicity for females:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause reproductive toxicity for males:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause developmental toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carcinogenicity Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA (Environmental Protection Agency)</td>
</tr>
<tr>
<td>101-68-8 Diphenylmethane-4,4'-di-isocyanate [D, CBD]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable</td>
</tr>
</tbody>
</table>

None of the ingredients is listed.

<table>
<thead>
<tr>
<th>NIOSH-Cancer (National Institute for Occupational Safety and Health)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>
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

Other Information:
In the previous SDS, version control was by Issue Number and Date. With the change to automated SDS creation software, version control is now based on printing and review dates which appear at the top of each page. Also consequent on this change, amendments have been made in all Sections of this SDS. In future updates to SDS, amended sections will be indicated by an asterisk (*) in the left-hand margin.

Date of preparation / last revision 11/04/2016 / 1.3
The first date of preparation 11/04/2016
Number of revision times and the latest revision date 1.4 / 11/04/2016