1 Identification

Product identifier
Trade name: Darapel S40
SDS ID Number: 2396

Relevant identified uses of the substance or mixture, and uses advised against
Specialty construction product. Not intended for other uses

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)

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

2 Hazard(s) identification

Classification of the substance or mixture
Causes skin irritation.
Causes serious eye irritation.

Label elements:
Hazard pictograms

Hazard statements
Causes skin irritation.
Causes serious eye irritation.

Precautionary statements
Wash thoroughly after handling.
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.
Trade name: Darapel S40

IF ON SKIN: Wash with plenty of water.
If eye irritation persists: Get medical advice/attention.
If skin irritation occurs: Get medical advice/attention.

NFPA ratings (scale 0 - 4)

Health = 1
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 2
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with additional nonhazardous ingredients.

<table>
<thead>
<tr>
<th>Hazardous components:</th>
<th>107-41-5 2-methylpentane-2,4-diol</th>
<th>50-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2943-75-1 Triethoxyoctylsilane</td>
<td>30-50%</td>
</tr>
<tr>
<td></td>
<td>126-73-8 Tributyl phosphate</td>
<td>2.0-5.0%</td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

Description of first aid measures

General information:
Get medical advice/attention if you feel unwell.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing: Rinse mouth.

Information for doctor:

Most important symptoms and effects, both acute and delayed 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.
Sweep up spilled product into receptacles.
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

Precautionary Measures: May degrade Polyvinylchloride (PVC) and other plastic materials.

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.
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

Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Code</th>
<th>Substance</th>
<th>REL (USA) Ceiling limit value</th>
<th>REL (USA) Ceiling limit value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-41-5</td>
<td>2-methylpentane-2,4-diol</td>
<td>125 mg/m³, 25 ppm</td>
<td></td>
</tr>
<tr>
<td>126-73-8</td>
<td>Tributyl phosphate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 5 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 2.5 mg/m³, 0.2 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 5* mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BEI-A, *inhalable fraction and vapor

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Code</th>
<th>Substance</th>
<th>BEI (USA) 70 % of baseline</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>126-73-8</td>
<td>Tributyl phosphate</td>
<td>70 % of baseline</td>
<td>red blood cells</td>
<td>discretionary</td>
<td>Cholinesterase activity (nonspecific)</td>
</tr>
</tbody>
</table>

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

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Respiratory protection is not normally required. However, a chemical cartridge respirator with organic vapor cartridge and a prefilter for dusts/mists is required at or above the applicable exposure limits (consult exposure guidelines). If no limits exist, use an approved respirator whenever a vapor or mist is generated or if respiratory irritation occurs. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

Protection of hands:

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product. Rubber or other impervious gloves should be worn to prevent skin contact.

Material of gloves

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product. Butyl rubber, BR

Eye protection:

Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.

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

Body protection:

Use personal protective equipment as required.
Trade name: **Darapel S40**

Take off contaminated clothing.

### 9 Physical and chemical properties

**Information on basic physical and chemical properties**

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

| pH-value (~):        | Not determined. |

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

| 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. |

<table>
<thead>
<tr>
<th>Explosion limits:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>VOC Content (max):</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vapor pressure at 20 °C (68 °F):</th>
<th>0.1 hPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (~):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

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

| Partition coefficient (n-octanol/water): | Not determined. |

<table>
<thead>
<tr>
<th>Viscosity:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

| 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.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** May degrade Polyvinylchloride (PVC) and other plastic materials
### 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**

**Primary irritant effect:**
- **on the skin:** Causes skin irritation.
- **on the eye:** Causes serious eye irritation.
- **inhalation:** No irritating effect expected

**Ingestion:**

**Additional toxicological information:**

**Carcinogenic categories**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC (International Agency for Research on Cancer)</td>
<td>Human Carcinogenicity: Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable</td>
</tr>
<tr>
<td>NTP (National Toxicology Program)</td>
<td>K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic</td>
</tr>
<tr>
<td>OSHA-Ca (Occupational Safety &amp; Health Administration)</td>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

### 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>DOT, ADR, ADN, IMDG, IATA</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Class</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td>DOT, ADR, IMDG, IATA</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Environmental hazards:</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special precautions for user</td>
<td></td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.
DOT Remarks: Not Regulated.
UN "Model Regulation": 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):
None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:

- Health Delayed (chronic): Yes
- Health Immediate (acute): Yes
- Flammable: No
- Reactive: No
- Pressure: No
### Trade name: Darapel S40

#### 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. |

#### California Proposition 65

| Chemicals known to cause cancer: | None of the ingredients is listed. |
| Chemicals known to cause reproductive toxicity for females: | None of the ingredients is listed. |
| Chemicals known to cause reproductive toxicity for males: | None of the ingredients is listed. |
| Chemicals known to cause developmental toxicity: | None of the ingredients is listed. |

#### Carcinogenicity Categories

| EPA (Environmental Protection Agency) | None of the ingredients is listed. |
| TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists) | Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable |
| NIOSH-Cancer (National Institute for Occupational Safety and Health) | None of the ingredients is 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

**Date of preparation / last revision** 04/06/2016 / -

**The first date of preparation** 03/17/2015

**Number of revision times and the latest revision date** 1.0 / 04/06/2016