SAFETY DATA SHEET

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

1.1 Product identifiers

<table>
<thead>
<tr>
<th>Product Number:</th>
<th>D0401</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name:</td>
<td>Difluoromethyl phenyl sulfone</td>
</tr>
<tr>
<td>CAS Registry Nr:</td>
<td>1535-65-5</td>
</tr>
</tbody>
</table>

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

Laboratory chemicals, Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company:</th>
<th>Chemodex AG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CH - 9000 St. Gallen</td>
</tr>
<tr>
<td></td>
<td>Switzerland, Europe</td>
</tr>
<tr>
<td>Tel:</td>
<td>+41 71 244 48 25</td>
</tr>
<tr>
<td>Fax:</td>
<td>+41 71 244 48 26</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:info@chemodex.com">info@chemodex.com</a></td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://www.chemodex.com">www.chemodex.com</a></td>
</tr>
</tbody>
</table>

1.4 Emergency telephone number

| Tox Info Suisse: | 145 or +41 44 251 51 51 |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| Skin irritation (Category 2) | H315 |
| Eye irritation (Category 2A) | H319 |

For the full text of the H-Statements mentioned in this Section, see Section 16.
2.2 GHS Label elements, including precautionary statements

Pictogram

| Signal word | Warning |

Hazard statement(s)

| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Precautionary statement(s)

| P264 | Wash skin thoroughly after handling. |
| P280 | Wear protective gloves/ eye protection/ face protection. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332 + P313 | If skin irritation occurs: Get medical advice/ attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/ attention. |
| P362 | Take off contaminated clothing and wash before reuse. |

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS-none

SECTION 3: Composition/information on ingredients

3.1 Substances

| Synonyms: | Phenyl difluoromethyl sulfone |
| Mol. Formula: | C7H6F2O2S |
| Molecular Weight: | 192.2 g/mol |
| CAS Registry No.: | 1535-65-5 |

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difluoromethyl phenyl sulfone</td>
<td>Skin Irrit.2; Eye Irrit.2A; H315, H319</td>
<td>&lt;=100%</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
**In case of skin contact**
Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

**SECTION 5: Firefighting measures**

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sulphur oxides, Hydrogen fluoride

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
No data available

**SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and material for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Store under inert gas.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated
use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**
Do not let product enter drains.

---

**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><strong>a) Appearance:</strong></td>
<td>Colour: Colorless to light yellow</td>
</tr>
<tr>
<td></td>
<td>Form: Semi-solid</td>
</tr>
<tr>
<td><strong>b) Odour:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>c) Odour Threshold:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>d) pH:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>e) Melting point/freezing point:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>f) Initial boiling point and boiling range:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>g) Flash point:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>h) Evaporation rate:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>i) Flammability (solid, gas):</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>j) Upper/lower flammability or explosive limits:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>k) Vapour pressure:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>l) Vapour density:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>m) Relative density:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>n) Water solubility:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>o) Partition coefficient (n-octanol/water):</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>p) Auto-ignition temperature:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>q) Decomposition temperature:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>r) Viscosity:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>s) Explosive properties:</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>t) Oxidizing properties:</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 Other safety information
No data available
SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Reducing agents, Oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions.-Carbon oxides, Sulphur oxides, Hydrogen fluoride
Other decomposition products-No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

**SECTION 14: Transport information**

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods

14.6 Special precautions for user
No data available

14.7 Further information
No data available

**SECTION 15: Regulatory information**

**SARA 302 Components**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**
Acute Health Hazard

**Massachusetts Right To Know Components**
No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**
Difluoromethyl phenyl sulfone
CAS-No.1535-65-5

**New Jersey Right To Know Components**
Difluoromethyl phenyl sulfone
CAS-No.1535-65-5

**SECTION 16: Other information**
Further information

©2016 Chemodex Ltd. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but shall not be taken as being all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemodex Ltd. and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.chemodex.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.