1. IDENTIFICATION OF SUBSTANCE AND COMPANY DETAILS

1.1 Product Identifier

Product name: The Calixar C2B Kit
Product number: MD1-109
REACH registration No.: See section 3
CAS No.: See section 3

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

Identified uses: Research and development
Uses advised against: Not for drug, household or uses other than those identified

1.3 Details of the supplier of the Safety Datasheet

Supplier: Molecular Dimensions Limited
Address: Unit 6 Goodwin Park, Willie Snaithe Road, Newmarket, Suffolk, CB8 7SQ, United Kingdom
Telephone: +44 (0)1638 561051
Fax: +44 (0)1638 660674
Email address: enquiries@moleculardimensions.com

1.4 Emergency telephone number

Emergency phone number: 999

2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Pictogram(s):

Hazard statement(s):
See section 2.1.
Precautionary statement(s):
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P302+P352 IF ON SKIN: Wash with soap and water

2.3 Other hazards

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

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<tr>
<th>Chemical</th>
<th>EC No.</th>
<th>REACH No.</th>
<th>CAS No.</th>
<th>Concentration</th>
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<th>H-code(s)</th>
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4. FIRST AID MEASURES

4.1 Description of first aid measures

General notes: Consult a doctor. Show this safety datasheet to the doctor in attendance.

Following inhalation: Move to fresh air. If not breathing, give artificial respiration. Consult a doctor.

Following skin contact: Wash off with soap & water. Consult a doctor.

Following eye contact: Rinse thoroughly for at least 15 minutes. Consult a doctor. Wash off with soap & water.

Following ingestion: Rinse mouth with water. Consult a doctor.

Self-protection for first aider: Always use recommended PPE when treating patient.

4.2 Most important symptoms and effects, both acute and delayed

The most important known effects are detailed in section 2.2 and section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available
5. FIRE-FIGHTING METHODS

5.1 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.

5.3 Advice for firefighters
Wear breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours. Ensure adequate ventilation.

6.2 Environmental precautions
Do not let product enter drains

6.3 Methods and materials for containment and clean up
Use spill kit to contain spillage & use wet brushing to place in a suitable container for disposal.

6.4 Reference to any other sections
For disposal, see section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
For precautions, see section 2.2

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in well-ventilated place. Containers which are opened must be carefully resealed and stored upright to prevent leakage.

7.3 Specific end use
Apart from uses in Section 1.2, no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSO

8.1 Control parameters
None of the constituent chemicals have workplace exposure limits.

8.2 Exposure controls
8.2.1 Appropriate engineering controls
Wash hands before work break and at the end of the day

8.2.2 Personal protection
Eye/face protection
Lab specs.

Skin Protection
Nitrile gloves (splash protection only) and lab coat

Respiratory protection
Use respirators and components tested and approved under appropriate government standards such as CEN (EU) as back up to engineering control

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance: Transparent liquid
b) Odour: No data available
c) Odour threshold: No data available
d) pH: No data available
e) Melting point / freezing point: No data available
f) Initial boiling point and boiling range: No data available
g) Flash point: No data available
h) Evaporation rate: No data available
i) Flammability: No data available
j) Upper / lower flammability or exposure limits: No data available
k) Vapour pressure: No data available
l) Vapour density: No data available
m) Relative density: No data available
n) Solubility(ies): No data available
o) Partition coefficient: n-octanol / water: No data available
p) Auto-ignition temperature: No data available
q) Decomposition temperature: No data available
r) Viscosity: No data available
s) Explosive properties: No data available
t) Oxidising properties: No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity: No data available
10.2 Chemical stability: No data available
10.3 Possibility of hazardous reactions: No data available
10.4 Conditions to avoid: No data available
10.5 Incompatible materials
Strong oxidising agents, strong acids, strong bases

10.6 Hazardous decomposition materials: No data available. In case of fire see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
a) Acute toxicity: No data available
b) Skin corrosion / irritation: No data available
c) Serious eye damage / irritation: No data available
d) Respiratory or skin sensitization: No data available
e) Germ cell mutagenicity: No data available
f) Carcinogenicity: No data available
g) Reproductive toxicity: No data available
h) STOT - single exposure: No data available
11.2 Delayed and immediate effects as well as chronic effects from short to long term exposure

**Symptoms**
No symptoms.

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
No data available

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of packaging as unused product. Offer surplus and non-recyclable solutions to a licensed disposal company. Observe all EU and local environmental regulations.

14. TRANSPORT INFORMATION

14.1 UN number

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14.2 UN proper shipping name

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14.3 Transport hazard classes(s)

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14.4 Packaging group

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14.5 Environmental hazards

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14.6 Special precautions for user

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15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations

No data available.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

a) Changes since last revision

First issue

b) Key to any abbreviations used

- **PPE**: Personal protective equipment
- **A.R.D./R.I.D.**: International Carriage of Dangerous Goods by Road / Rail
- **I.M.D.G.**: International Maritime Dangerous Goods
- **A.D.N.**: International Carriage of Dangerous Goods by Inland Waterways
- **TWA**: Time-weighted average
- **STEL**: Short-term exposure limit

<table>
<thead>
<tr>
<th>References and sources for data</th>
</tr>
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<tbody>
<tr>
<td>sigma-aldrich.com</td>
</tr>
<tr>
<td>fishersci.co.uk</td>
</tr>
<tr>
<td>anatrace.com</td>
</tr>
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</table>

d) Indication of methods used for classification (mixtures only)

No data available

e) List of Hazard and Precautionary phrase not listed in full in other sections

See Section 2.1.

f) Advice for training

Disclaimer:

The above information is believed to be correct but does not purport to be 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. Molecular Dimensions Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product.