Safety Data Sheet

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifiers
Product Name: Poly(4-methylcyclohexanol) resin
Product Code: BM1746
CAS-No.: N/A

1.2

1.3 Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Laboratory chemicals, Manufacture of substances

1.4 Details of the supplier of the safety data sheet
Company: Deffner & Johann GmbH
Address: Mühläckerstr. 13
97520 Röthlein
Germany
Telephone Number: T. +49 (0)9723 9350-0
Emergency Telephone Number: T. +49(0)9723 935025

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Not a dangerous good according to GHS

2.2 Label elements
Pictogram

Signal word
Hazard statement(s)

Prevention

Response
P301+P310 IF SWALLOWED Immediately call Poison Centre or Physician
P302+P352 IF ON SKIN: Immediately flush skin with plenty of soap and water.
P305+P338+P351 IF IN EYES: Immediately flush eyes with plenty of water for at least 20 minutes.
P333+P313 If skin irritation or rash occurs: Get medical advice
P337+P313 If eye irritation persists: Get medical advice
P363 Wash contaminated clothing before reuse

2.3 Other hazards - none

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>Synonyms</th>
</tr>
</thead>
<tbody>
<tr>
<td>(C8H14O)n</td>
</tr>
<tr>
<td>Molecular weight</td>
</tr>
<tr>
<td>CAS Number</td>
</tr>
<tr>
<td>Concentration</td>
</tr>
</tbody>
</table>

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.

Ingestion
If swallowed do not induce vomiting. If Victim is conscious, wash out mouth with copious amounts of water. Seek immediate medical assistance.

Eye
Immediately flush eyes with plenty of water for at least 20 minutes while holding eyelids open.

Skin
Immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Dispose of contaminated clothing and shoes in compliance with all local, state and federal laws and regulations.

Inhalation
Remove affected person to fresh air. If not breathing, give artificial respiration & seek immediate medical attention. If breathing is difficult, give oxygen.

Chronic
No specific information available on toxicity or the effects of overexposure

SEEK IMMEDIATE MEDICAL ASSISTANCE IN ALL CASES

4.2 Most important symptoms and effects, both acute and delayed
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed.
No data available
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td><strong>FIRE FIGHTING MEASURES</strong></td>
</tr>
</tbody>
</table>
| 5.1 | **Extinguishing media**  
Suitable extinguishing media  
Foam / Carbon dioxide / Dry powder |
| 5.2 | **Special hazards arising from the substance or mixture**  
Not Determined – May include carbon monoxide, carbon dioxide, boron oxides, Nitrous Oxides &/or organic fumes. |
| 5.3 | **Advise for firefighters**  
Wear self contained breathing apparatus for fire fighting if necessary |
| 5.4 | **Further information**  
No data available |
| 6 | **ACCIDENTAL RELEASE MEASURES** |
| 6.1 | **Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation. For respiratory protection, wear a NIOSH/MSHA approved dust mask or self contained breathing apparatus. |
| 6.2 | **Environmental precautions**  
Do not let product enter drains. |
| 6.3 | **Methods and materials for containment and cleaning up**  
Pickup and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. |
| 6.4 | **Reference to other sections**  
For disposal see section 13. |
| 7 | **HANDLING AND STORAGE** |
| 7.1 | **Precautions for safe handling**  
Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapours or mist. Use only with adequate ventilation |
| 7.2 | **Conditions for safe storage, including any incompatibilities**  
Handle and store in a DRY closed system, preferably under DRY nitrogen.  
Storage conditions: Store ≤ 25°C |
| 7.3 | **Specific end uses**  
Apart from the uses mentioned in section 1.3, no other specific uses are stipulated. |
| 8 | **EXPOSURE CONTROLS/PERSONAL PROTECTION** |
| 8.1 | **Control parameters**  
No data available |
| 8.2 | **Exposure controls** |
Personal protective equipment

Eye/face protection
Safety glass with side shields

Skin protection
Handle with chemical resistant gloves. Gloves must be inspected before use.

Body protection
Impervious clothing

Respiratory protection
When inhalation of vapor or mist is possible, wear a NIOSH/MSHA approved dust mask or self-contained breathing apparatus with full face-piece operated in positive-pressure mode.

Engineering controls
Eye wash and safety showers must be available and in good working order.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance (Color and Form) White to yellow solid
b) Odour Not Determined
c) Odour Threshold Not Determined
d) pH Not Determined
e) Melting Point Not Determined
f) Boiling Point Not Determined
g) Flashpoint Not Determined
h) Evaporation rate Not Determined
i) Flammability Not Determined
j) Upper/lower flammability or explosive limits Not Determined
k) Vapour Pressure Not Determined
l) Vapour density Not Determined
m) Relative density Not Determined
n) Water solubility Not Determined
o) partition coefficient: Not Determined
p) Autoignition temperature Not Determined
q) Decomposition temperature Not Determined
r) Viscosity Not Determined
s) Explosive properties Not Determined
t) Oxidizing properties Not Determined

9.2 Other safety information
No data available

10 STABILITY AND REACTIVITY

10.1 Reactivity
Not Determined.
10.2 Chemical stability
Not Determined.

10.3 Possibility of hazardous reactions
Not Determined - Not expected to occur.

10.4 Conditions to avoid
Keep away from heat, sparks, and flame.

10.5 Incompatible materials
Strong Oxidisers

10.6 Hazardous decomposition products
Not Determined – May include carbon monoxide, carbon dioxide, boron oxides, Nitrous Oxides &/or organic fumes.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
a) Acute toxicity Not Determined.
b) Skin corrosion/irritation Not Determined.
c) Serious eye damage Not Determined.
d) Respiratory or skin sensitization Not Determined.
e) Germ cell mutagenicity Not Determined.
f) Carcinogenicity Not Determined.
g) Reproductive toxicity Not Determined.
h) Specific target organ toxicity Inhalation – May cause respiratory irritation.
   – single exposure
i) Specific target organ toxicity Not Determined.
   – repeated exposure
j) Aspiration hazard Not Determined.

12 ECOLOGICAL INFORMATION

12.1 Toxicity Not Determined.
12.2 Persistence Not Determined.
12.3 Bioaccumulative potential Not Determined.
12.4 Mobility in soil Not Determined.
12.5 Results of PBT and vPvB assessment Not Determined.
12.6 Other adverse effects Not Determined.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state & local environmental regulations.

14 TRANSPORTATION INFORMATION

14.1 UN number
ADR/RID: N/A IMDG: N/A IATA-DGR: N/A

14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA-DGR: Not dangerous goods

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>IMDG: N/A</th>
<th>IATA-DGR: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR/RID: N/A</td>
<td>IMDG: N/A</td>
<td>IATA-DGR: N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4 Packaging group</th>
<th>IMDG: N/A</th>
<th>IATA-DGR: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR/RID: N/A</td>
<td>IMDG: N/A</td>
<td>IATA-DGR: N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5 Environmental hazard</th>
<th>IMDG: No</th>
<th>IATA-DGR: No</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR/RID: No</td>
<td>IMDG: No</td>
<td>IATA-DGR: No</td>
</tr>
</tbody>
</table>

| 14.6 Special precautions for user| IN/A |

<table>
<thead>
<tr>
<th>15 REGULATORY INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety, health and environment regulations/legislation specific for the substance or mixture</td>
</tr>
<tr>
<td>Not Applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16 OTHER INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Preparation</td>
</tr>
<tr>
<td>Revision No.</td>
</tr>
</tbody>
</table>

Disclaimer:
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Deffner & Johann GmbH be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising.

THE END