SAFETY DATA SHEET

1. COMPANY AND PRODUCT INFORMATION

Product Name: Sundek Additive (High Performance)
Supplier
Sundeck Products USA, Inc.
805 Ave. H Suite 508
Arlington, Texas  76011
For health and safety questions:
Phone number (888) 390-0305
Fax number (817) 649-7292
E-mail: products@sundek.com

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: 1-703-527-3887
(collect calls accepted)

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification (GHS):
Not a hazardous substance or mixture.

2.2 Label elements
Labelling (GHS):
No labeling according to GHS required.

Hazard ingredients (labelling): Water
Polyoxyethylene (t-octylphenyl) ether
Butyl acrylate-methacrylic acid-methyl methacrylate copolymer

2.3 Other hazards
No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization (preparation)
Chemical characteristics: Copolymer of: vinyl acetate + ethylene (dispersion in water).

3.2 Information of ingredients:
Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

4. FIRST-AID MEASURES

4.1 General information:
Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

4.2 After inhalation:
If inhaled as aerosol, remove to fresh air. No special measures required.

4.3 After contact with the skin:
If contact with skin, wash skin with plenty of water or with water and soap.

4.4 After contact with the eyes:
If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

4.5 After swallowing:
For ingestion, if conscious, give several glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids. Get medical attention if symptoms occur. Show label if possible.
5. **FIRE-FIGHTING MEASURES**

5.1 Flammable properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Approx 100 C (212 F) at 1013 hPa</td>
</tr>
<tr>
<td>Lower explosion limit (LEL)</td>
<td>not applicable</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

5.2 Fire and explosion hazards: Material does not burn. Dried up material is combustible. This material does not present any unusual fire or explosion hazards.

5.3 Recommended extinguishing media: Use extinguishing measures appropriate to the source of the fire. Water may be used to cool the tanks and structures adjacent to the fire.

5.4 Unsuitable extinguishing media: Not applicable

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

- At low oxygen level: acetic acid.

5.6 Fire fighting procedures: Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

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6. **ACCIDENTAL RELEASE MEASURES**

6.1 Precautions: Wear personal protection equipment (see section 8). If material is released indicate risk of slipping. HAZWOPER PPE Level: D

6.2 Containment: Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth). Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center’s toll free number (800) 424-8802.

6.3 Methods for cleaning up: Take up mechanically and dispose of according to local/state/federal regulations/ For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean up with plenty of water. Dispose of cleansing water in accordance with local/state/federal regulations.

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7. **HANDLING AND STORAGE**

7.0 General Information: Avoid exposure by technical measures or personal protective equipment.

7.1 Handling

- Precautions for safe handling: Spilled substance increases risk of slipping.
- Precautions against fire and explosion: No special precautions against fire and explosion required.

7.2 Storage

- Conditions for storage rooms and vessels: Protect against frost.
- Advice for storage of incompatible materials: Not applicable.
- Further information for storage: Not applicable.
- Minimum temperature allowed during storage and transportation: 0 degrees C (32 degrees F)

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8. **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

8.1 Engineering controls

- Ventilation: Use with adequate ventilation.
- Local exhaust: No special ventilation required.

8.2 Associate substances with specific control parameters such as limit values

- Maximum airborne concentrations at the workplace: None known.

8.3 Personal protection equipment (PPE)

- Respiratory Protection: Not necessary.
- Hand protection: Recommendation: Any liquid-tight rubber or vinyl gloves.
- Eye protection: Safety glasses with side shields or chemical safety goggles.

8.3 General hygiene and protection measures: Do not eat or drink when handling. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance
Physical state/form: liquid
Color: white
Odor: slight

9.2 Safety parameters
Melting point/melting range: approx. 0.0 degrees C (32 degrees F)
Boiling point/boiling range: approx. 100 degrees C (212 degrees F) at 1013 hPa
Flash point: not applicable
Ignition temperature: not applicable
Lower explosion limit (LEL): not applicable
Vapor pressure: 23 hPa at 20 degrees C (68 degrees F)
Density: 1.07 g/m3
Water solubility/miscibility: moderately soluble
pH-Value: 9.0-10.0
Viscosity (dynamic): <100 mPa.s at 23 degrees C (73 degrees F)

9.3 Further information
VOC <0.2 g/l

10. STABILITY AND REACTIVITY

10.0 General information: If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
10.1 Conditions to avoid: None known.
10.2 Materials to avoid: None known.
10.3 Hazardous decomposition products: If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known. At increased temperature: acetic acid.
10.4 Further information: Hazardous polymerization cannot occur.

11. TOXICOLOGICAL INFORMATION

11.1 General information: Toxicological testing has been conducted with similar product(s).
11.2 Toxicological data:
Acute toxicity (LD50/LC50-values relevant to classification):

<table>
<thead>
<tr>
<th>Exposition</th>
<th>Value/value range</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD 50:&gt;2000 mg/kg</td>
<td>rat (limit test)</td>
<td>Conclusion by analogy OECD423</td>
</tr>
</tbody>
</table>

11.3 Skin corrosion/irritation: For this endpoint no toxicological test data is available for the whole product.

<table>
<thead>
<tr>
<th>Value/value range</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not irritating</td>
<td>rabbit</td>
<td>Conclusion by analogy OECD404</td>
</tr>
</tbody>
</table>

Serious eye damage/eye irritation: For this endpoint no toxicological test data is available for the whole product.

<table>
<thead>
<tr>
<th>Value/value range</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not irritating</td>
<td>rabbit</td>
<td>Conclusion by analogy OECD405</td>
</tr>
</tbody>
</table>

11.4 Respiratory or skin sensitization: Based on the available data a sensitization reaction is not expected from this product.

<table>
<thead>
<tr>
<th>Exposition</th>
<th>Value/value range</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>dermal</td>
<td>Non sensitizing</td>
<td>Mouse; LLNA (local lymph node assay)</td>
<td>Conclusion by analogy OECD429</td>
</tr>
</tbody>
</table>
11.5 Germ cell mutagenicity: For this endpoint no toxicological test data is available for the whole product.

<table>
<thead>
<tr>
<th>Value/value range</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>negative</td>
<td>Mutation assay (in vitro)</td>
<td>Conclusion by analog</td>
</tr>
<tr>
<td></td>
<td>Bacterial cells</td>
<td>OECD471</td>
</tr>
</tbody>
</table>

11.6 Carcinogenicity: For this endpoint no toxicological test data is available for the whole product.

11.7 Reproductive toxicity: For this endpoint no toxicological test data is available for the whole product.

11.8 Specific target organ toxicity (single or repeated exposure): For this endpoint no toxicological test data is available for the whole product.

11.9 Aspiration hazard: For this endpoint no toxicological test data is available for the whole product.

11.10 Further toxicological information. Other information: During manufacture and use: No information on damage to health. Remark for the listed toxicological data: Evaluation in analogy to similar product.

### 12. ECOLOGICAL INFORMATION

12.1 Toxicity Assessment: No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

<table>
<thead>
<tr>
<th>Result/Effect</th>
<th>Species/Test system</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC_{50} &gt; 100 mg/l</td>
<td>rainbow trout (Oncorhynchus mykiss) (96 h)</td>
<td>Conclusion by analogy OECD 203</td>
</tr>
<tr>
<td>EC_{10} &gt; 1000 mg/l</td>
<td>sludge (0.5 h)</td>
<td>Conclusion by analogy</td>
</tr>
</tbody>
</table>

Information on elimination (persistence and degradability)

Biodegradation/further information: Not readily biodegradable.

Further information: Polymer component: Elimination by adsorption to activated sludge. Separation by flocculation is possible.

12.2 Behavior in environmental compartments

Mobility: -

Further information: No adverse effects expected.

12.3 Mobility in soil:

According to current knowledge adverse effects of water purification plants are not expected.

12.4 Other adverse effects: None known

12.5 Additional information: According to present knowledge no adverse influence to environment expected.

### 13. DISPOSAL CONSIDERATIONS

13.1 Product disposal: Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

13.2 Packaging disposal: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

Recommended cleaning agent: Water

### 14. TRANSPORT INFORMATION

14.1 US DOT & CANADA TDG SURFACE

Valuation: Not regulated for transport

Other information: Protect from freezing, when exposed to cold temperatures approaching 0 °C (32 °F) or below.

14.2 Transport by sea IMDG-Code

Valuation: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation: Not regulated for transport
15.1 U.S. Federal regulations
TSCA inventory status and TSCA information: This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification: This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals: This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals: This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class: This product does not present any SARA 311/312 hazards.

SARA 313 Chemicals: This material does not contain any SARA 313 chemicals above the minimum levels.

HAPS (Hazardous Air Pollutants):

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical</th>
<th>Upper limit wt.%</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6</td>
<td>Methyl methacrylate</td>
<td>&lt;0.0099</td>
</tr>
</tbody>
</table>

15.2 U.S. State regulations
California Proposition 65 Carcinogens: 50-00-0 Formaldehyde

California Proposition 65 Reproductive Toxins: This material does not contain any chemicals known to the state of California to cause reproductive effects.

Massachusetts Substance List: This material contains no listed components.

New Jersey Right-to-Know Hazardous Substance List: This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List: This material contains no listed components.

15.3 Canadian regulations
This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Hazard Classes: None

DSL Status: This material or its components are listed on the Canadian Domestic Substances List.

Non-DSL Chemicals: This material does not contain any non-DSL chemicals.

Canadian Ingredient Disclosure List: This material contains no listed components.

15.4 Other international regulations
Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea) ............... : ECL (Existing Chemicals List): This product is listed in, or complies with, the substance inventory.

Australia ........................................... : AICS (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.

People's Republic of China ..................... : IECSC (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.

Canada ............................................. : DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.

Philippines ....................................... : PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.

United States of America (USA) .............. : TSCA (Toxic Substance Control Act Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory.

European Economic Area (EEA) ............... : REACH (Regulation (EC) No 1907/2006):

General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

16. OTHER INFORMATION

16.1 Additional information:
This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components.
This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16.2 Glossary of Terms:
ACGIH – American Conference of Governmental Industrial Hygienists
DOT – Department of Transportation
hPa – Hectopascals
mPa*s – Milli Pascal-Seconds
OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Limit

ppm – Parts per Million
SIDA – Superfund Amendments and Reauthorization Act
STEL – Short Term Exposure Limit
TSCA – Toxic Substances Control Act
TWA – Time Weighted Average
WHMIS – Canadian Workplace Hazardous Materials Identification System

Flash point determination methods

<table>
<thead>
<tr>
<th>Pressure:</th>
<th>1 hPa * 0.75 = 1 mm Hg = 1 Torr; 1 bar = 1000 hPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity:</td>
<td>1 mPa*s = 1 Centipoise (Cp)</td>
</tr>
</tbody>
</table>

Common Name
Tagliabue (Tag) closed cup
Cleveland open cup
Pensky-Martens closed cup
Setaflash or Rapid closed cup
Abel-Pensky closed cup

16.3 Conversion table:

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