



MATERIAL SAFETY DATA SHEET

1. COMPANY AND PRODUCT INFORMATION

Product Name: Sundek ADDITIVE

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. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Chemical characterization (preparation):

Chemical characteristics
Copolymer of: Vinyl acetate + ethylene (dispersion in water).

2.2 Information on ingredients:

This material does not contain any hazardous substances at or above OSHA and WHMIS reportable levels.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens/Reproductive Toxins" that are not listed in Section 2 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.

3. HAZARDS IDENTIFICATION

3.1 Hazards classifications

HMIS rating (product as packaged):

Health: 1 Fire: 0 Reactivity: 0 PPE: B

Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.)

Canadian WHMIS classification: None

3.2 Emergency overview and potential hazards

This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

Physical Hazards: No known physical hazards.

Acute health effects

Route of entry or possible contact: Eyes, skin, inhalation, ingestion
Eye contact: May cause slight eye irritation
Skin contact: May cause skin sensitization
Inhalation: No acute toxic respiratory tract effects are expected.
Ingestion: Ingestion is not expected in industrial use.

3.3 Further information:

Chronic health effects: Contains chemical(s) present at <0.1% which may cause: skin sensitization.

Medical conditions aggravated by exposure: Not established.

Carcinogens/Reproductive toxins: This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels. There are no carcinogenic ingredients present at or over 0.1% in this material.

See Section 11 for Toxicological Information, if any.

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:**
- Flash point: not applicable
- Boiling point/boiling range: approx. 100 degrees C (212 degrees F) at 1013 hPa
- Lower explosion limit (LEL): not applicable
- Ignition temperature: not applicable
- 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.

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.

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)

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: Respiratory protection is not normally required.
Hand protection: Recommendation: Any liquid-tight rubber or vinyl gloves.
Eye protection: Safety glasses with side shields or chemical safety goggles.
Other protective clothing/equipment: Additional skin protection, such as SARANEX coated Tyvek apron, over-sleeves, lab coat, overalls, or protective suit should be worn if splashing could occur. Provide eye bath and safety shower.

8.4 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: 1.09 g/m³ at 21 degrees C (69 degrees F)
Water solubility/miscibility: moderately soluble
pH-Value: 4.7 - 5.7
Viscosity (dynamic): 250 – 900 mPa.s at 25 degrees C (77 degrees F)

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):

Exposition	Value/value range	Species	Source
Oral	>2000 mg/kg	rat (limit test)	test report

Primary irritation:

Exposition	Effect	Species/testsystem	Source
To eyes	mildly irritating	rabbit	test report

Experience with man: During manufacture and use: No information on damage to health.

12. ECOLOGICAL INFORMATION

12.1 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 Ecotoxicological effects:

Species	Test method	Exp. Time	Result	Source
Carp (<i>Cyprinus carpio</i>)	acute	96 h	>1000 mg/l (LC50)	test report

No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

Test system	Exp. Time	Result	Source
Sludge	0, 5 h	>1000 mg/l (EC10)	test report

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

12.4 Additional information

Other harmful effects: -
General information: Prevent material from entering surface waters and soil. Only introduce into water purification plants in diluted state. No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable. The ecotoxicological results provided were obtained from tests with similar products.

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.

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. REGULATORY INFORMATION

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):
 108-05-4 Vinyl Acetate
 50-00-0 Formaldehyde

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. REGULATORY INFORMATION (CONT)

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.

Canadian Ingredient Disclosure List:

This material contains no listed components.

15.4 Other international regulations

EU Hazard Symbols:

X	xi	Irritant
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EU Risk Phrases:

R-Phrase	Description
R43	May cause sensitization by skin contact.

EU Safety Phrases:

S-Phrase	Description
S36/37	Wear suitable protective clothing and gloves.

Details of international registration status

Listed on or in accordance with the following inventories:

- IECSC – China
- TSCA – USA
- PICCS – Philippines
- ECL – Korea
- DSL – Canada
- AICS – Australia

16. OTHER INFORMATION

16.1 Additional information:

This Material Safety Data Sheet (MSDS) 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 MSDS 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

ppm – Parts per Million

DOT – Department of Transportation

SARA – Superfund Amendments and Reauthorization Act

hPa – Hectopascals

STEL – Short Term Exposure Limit

mPa*s – Milli Pascal-Seconds

TSCA – Toxic Substances Control Act

OSHA – Occupational Safety and Health Administration

TWA – Time Weighted Average

PEL – Permissible Exposure Limit

WHMIS – Canadian Workplace Hazardous Materials Identification System

Flash point determination methods

ASTM D56

ASTM D92, DIN 51376, ISO 2592

ASTM D93, DIN 51758, ISO 2719

ASTM D3278, DIN 55680, ISO 3679

DIN 51755

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:

Pressure: 1 hPa * 0.75 = 1 mm Hg = 1 Torr; 1 bar = 1000 hPa

Viscosity: 1 mPa*s = 1 Centipoise (Cp)

Disclaimer:

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by this company to be accurate.