5529 US 60 East Owensboro, KY 42303 USA www.onssp.com

MATERIAL SAFETY DATA SHEET

Revision Date: December 1, 2012

Rev.: 5.0

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER NAME: Owensboro Specialty Polymers, Inc. SUPPLIER ADDRESS: 5529 US 60 E., Owensboro, KY 42303 USA

GENERAL INFORMATION: 1-877-358-0703 Monday – Friday 8am-4pm Central Time Zone (toll free in US)

E-mail: info@onssp.com

CHEMICAL EMERGENCY: CHEMTREC® 1-800-424-9300

PRODUCT NAME: DARATAK® 17-200

PRODUCT CODE: DK17200

CHEMICAL DESCRIPTION: Vinyl acetate polymer dispersion in water **SYNONYMS:** Acetic acid, ethenyl ester, homopolymer

PRODUCT CAS NUMBER: 9003-20-7 **PRODUCT USE:** Adhesives

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: A white, milky liquid with a slight vinegar odor. May cause eye irritation. May cause skin irritation. May cause respiratory tract irritation. Possible Cancer Hazard – May cause cancer based on animal data.

HAZARD CLASSIFICATION:

This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200).

RELEVANT ROUTES OF EXPOSURE: Eye contact, skin contact, inhalation

EYE: May cause eye irritation SKIN: May cause skin irritation

INGESTION: Not determined

INHALATION: May cause respiratory tract irritation

CHRONIC EFFECTS: Possible Cancer Hazard – May cause cancer based on animal data

Vinyl acetate: IARC (Group 2B) and ACGIH (Group A3)

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

Eyes - tearing, stinging, redness. Skin - stinging, redness, some swelling possible. Coughing, soreness in respiratory tract, chest tightness, difficulty breathing.

CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

Any pre-existing disorders or diseases of the skin, eye, and respiratory system.

Page 1 OF 7

5529 US 60 East Owensboro, KY 42303 USA www.onssp.com

MATERIAL SAFETY DATA SHEET

Revision Date: December 1, 2012

Rev.: 5.0

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight Percent
Vinyl acetate polymer	9003-20-7	54-56
Water	7732-18-5	44-46
Vinyl acetate	108-05-4	<1.0
Hydrolyzed polyvinyl alcohol	9002-89-5	>1.0

SECTION 4. FIRST AID MEASURES

EYE CONTACT: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention immediately if irritation persists.

SKIN CONTACT: In case of skin contact, flush with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if irritation develops and persists.

INGESTION: If swallowed, do NOT induce vomiting unless directed to do so by a physician. Never give anything

by mouth to an unconscious person. Rinse mouth thoroughly with water. Get medical attention.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

give oxygen. Get medical attention.

SECTION 5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Aqueous product. For fires involving dried material use water, carbon dioxide, dry chemicals, or foam.

SPECIFIC HAZARDS ARISING FROM THE CHEMCIAL: Carbon monoxide and carbon dioxide are the thermal decomposition products.

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: If product is present in fire and threat of decomposition exists, wear full fire fighting turn-out gear (full Bunker gear) and self-contained breathing apparatus (SCBA) with full-face piece.

NFPA RATINGS (applicable to firefighting situations only): Health 2, Flammability 1, Reactivity 0

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Use personal protection recommended in Section 8.

ENVIRONMENTAL PRECAUTIONS:

Prevent spilled product or contaminated wash water from entering drinking water supplies, drains, sewers, ditches, and waterways.

Page 2 OF 7

5529 US 60 East Owensboro, KY 42303 USA www.onssp.com

MATERIAL SAFETY DATA SHEET

Revision Date: December 1, 2012

Rev.: 5.0

METHODS FOR CONTAINMENT AND CLEANING UP:

Contain liquid spills using a barrier of inert material such as sand or by diking the area. Absorb spilled liquids using an inert material such as sand or earth. Scoop or shovel absorbed material into containers.

OTHER INFORMATION:

Avoid creating dust during transfer of solids.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Avoid contact with eyes, skin, and clothing.

Avoid breathing mist or vapor.

Check protective clothing particularly impervious gloves, for leaks before use.

Wash thoroughly after handling.

Wash contaminated clothes before re-use.

Launder work clothes separately from family clothes.

CONDITIONS FOR SAFE STRORAGE:

To protect product quality avoid storage temperature extremes less than 40° F or greater than 100° F.

Keep container tightly closed when not in use.

Use only with adequate ventilation.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS/EXPOSURE LIMITS:

 Component(s)
 ACGIH TLV
 OSHA PEL

 Vinyl acetate
 10ppm TWA (35 mg/m³ TWA)
 not established

15ppm STEL (53 mg/m³ STEL)

ENGINEERING CONTROLS:

Use exhaust ventilation, if needed, to keep airborne concentrations below exposure limits.

It is recommended that exposure monitoring be part of the decision process.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Wear safety glasses with side shields (or goggles). Wear chemical splash goggles when eye and face contact is possible due to splashing or spraying of material. Wear impervious gloves to prevent skin contact. Wear chemical resistant clothing, as appropriate, when skin contact is possible due to splashing or spraying of material. A NIOSH-approved air-purifying respirator with an organic vapor cartridge or canister may be required under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Page 3 OF 7

5529 US 60 East Owensboro, KY 42303 USA www.onssp.com

MATERIAL SAFETY DATA SHEET

Revision Date: December 1, 2012

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Milky-white
ODOR: Slight vinegar

ODOR THRESHHOLD: Vinyl acetate 0.11-0.55 ppm

PHYSICAL STATE: Liquid pH: 4.5-6.0 FREEZING POINT: $\sim 0^{\circ}$ C (32° F) INITIAL BOILING POINT: $\sim 100^{\circ}$ C ($\sim 212^{\circ}$ F)

FLASH POINT: Aqueous system, not determined

EVAPORATION RATE: ~ same as water FLAMMABILITY: Not determined UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not determined VAPOR PRESSURE: ~ same as water VAPOR DENSITY: ~ same as water

SPECIFIC GRAVITY (WATER=1): 1.1

SOLUBILITY(IES): Miscible in water
PARTITION COEFFICIENT: N-OCTANOL/WATER: Not determined
AUTO-IGNITION TEMPERATURE: Not determined
DECOMPOSITION TEMPERATURE: Not determined

VISCOSITY: 1500-2000 centipoises (Brookfield #3@60rpm)

% VOLATILE BY WEIGHT: ~45% as water

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY WITH WATER:

CHEMICAL STABILITY:

POSSIBLILITY OF HAZARDOUS REACTIONS:

CONDITIONS TO AVOID:

None known
INCOMPATIBLE MATERIALS:

None known

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide are the thermal

decomposition products.

SECTION 11. TOXICOLOGICAL INFORMATION

The toxicological properties of this material have not been fully investigated.

ACUTE TOXICITY: No specific known hazard. Oral LD for rats was >25,000 mg/kg. (Journal of the American College of Toxicology Vol. 11, Pg. 465, 1992.)

SKIN CORROSION/IRRITATION: May cause skin irritation. Dermal contact with vinyl acetate (108-05-4) may produce irritation with blister formation (IARC 1986).

Page 4 OF 7

5529 US 60 East Owensboro, KY 42303 USA www.onssp.com

MATERIAL SAFETY DATA SHEET

Revision Date: December 1, 2012

Rev.: 5.0

SERIOUS EYE DAMAGE/IRRITATION: May cause eye irritation. Vinyl acetate monomer (108-05-4) vapors were irritating to the eyes at a concentration of 21.6 ppm (ACGIH 1991).

RESPIRATORY OR SKIN SENSITIZATION: May cause respiratory tract irritation. Volunteers exposed to vinyl acetate monomer (108-05-4) vapors at concentrations ranging from 19.5 to 71.5 ppm for 0.5 to 4 hours reported respiratory tract irritation (ACGIH 1991).

CARCINOGENICITY: Possible cancer hazard by IARC (Group 2B) and ACGIH (Group A3). May cause cancer based on animal data.

GERM CELL MUTAGENICITY:

REPRODUCTIVE TOXICITY:

Not available at this time

STOT-SINGLE EXPOSURE:

Not available at this time

ASPIRATION HAZARD:

Not available at this time

SECTION 12. ECOLOGICAL INFORMATION

The ecological properties of this material have not been fully investigated.

TOXICITY:

Aquatic Toxicity:

Terrestrial Toxicity:

PERSISTENCE AND DEGRADABILITY:

BIOACCUMULATIVE POTENTIAL:

MOBILITY IN SOIL:

OTHER ADVERSE EFFECTS:

Not available at this time

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

This product is not a federal hazardous waste according to U.S. EPA regulation 40 CFR 261. Disposal should be made in accordance with federal, state, and local regulations.

Canada: Dispose of waste in accordance with local, provincial, and national regulations.

5529 US 60 East Owensboro, KY 42303 USA www.onssp.com

MATERIAL SAFETY DATA SHEET

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SECTION 14. TRANSPORT INFORMATION

U.S. DOT: This product is a not a Hazardous Material according to the Hazardous Materials Transportation Act and DOT regulations contained in 49 CFR.

Proper Shipping Name: SYNTHETIC LATEX/LIQUID RUBBER, NMFC: 171720

CANADIAN TDG: Not regulated IMDG Code: Not restricted IATA: Not restricted RID: Not determined ADR: Not determined

Please refer to the Bill of Lading for the most up to date shipping information for this container size and mode of transport.

SECTION 15. REGULATORY INFORMATION

INTERNATIONAL INVENTORY LISTINGS:

U. S. TSCA INVENTORY: Listed AUSTRALIAN AICS INVENTORY: Listed

EUROPEAN EINECS INVENTORY: All ingredients conform to the EU requirements.

CANADIAN INVENTORY: Canadian Domestic Substances List

JAPANESE ENCS INVENTORY: Listed CHINESE IECSC INVENTORY: Listed

U.S. REGULATORY INFORMATION:

SARA (311, 312) HAZARD CLASS: Immediate (acute) health hazard. Delayed (chronic) health hazard.

SARA (313) CHEMICALS - Ingredients present in products that may require reporting under Section 313 of SARA Title III as defined in 40 CFR 372: Vinyl acetate CAS#108-05-4.

CLEAN AIR ACT, OZONE DEPLETING SUBSTANCES: This product does not contain nor was it manufactured with Class I or Class II ozone depleting substances as defined by the Clean Air Act Amendments of 1990.

PENNSYLVANIA RIGHT-TO-KNOW ACT: According to definitions and limitations of the regulation, there are no hazardous, special hazardous or environmental hazardous substances present in the product.

CALIFORNIA PROPOSITION 65 Warning Statement: WARNING: This product contains a chemical known to the State of California to cause cancer.

Page 6 OF 7

5529 US 60 East Owensboro, KY 42303 USA www.onssp.com

MATERIAL SAFETY DATA SHEET

Revision Date: December 1, 2012

Rev.: 5.0

CANADIAN REGULATORY INFORMATION:

WHMIS HAZARD CLASS AND DIVISION: Class D Division 2A. Class D Division 2B.

EUROPEAN UNION REGULATORY INFORMATION:

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006):

Owensboro Specialty Polymers (OSP) is a non-EU manufacturer. OSP has appointed an only representative (OR) for OSP customers who directly import products from OSP into the EU. Please contact OSP at info@onssp.com for additional information.

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008):

This product is classified as a hazardous polymer. This product has not been notified under CLP because this product is not commercial in the EU.

Please contact us at info@onssp.com to request additional information on this product, if required.

SECTION 16. OTHER INFORMATION

HMIS: Health - *2, Flammability - 1, Reactivity - 0, Personal Protective Equipment- B

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