

**Product Name: SERFENE™ 546L**

**Owensboro Specialty Polymers, Inc.**

5529 Highway 2830  
Owensboro, KY 42303  
USA  
www.onssp.com

# SAFETY DATA SHEET

Revision Date: April 20, 2015  
Rev.2.0

## SECTION 1. IDENTIFICATION

### PRODUCT IDENTIFIER:

Product name: **SERFENE™ 546L**  
Product code: SER546L  
Product description: Vinylidene chloride, methyl acrylate-methyl methacrylate-2-hydroxyethyl acrylate, sulfoethyl methacrylate polymer dispersion in water.  
Synonyms: 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 1, 1-dichloroethene, 2-hydroxyethyl 2-propenoate, methyl 2-propenoate and 2-sulfoethyl 2-methyl-propenoate.  
Product CAS#: 63744-65-0

### RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Recommended use: Barrier adhesive, barrier primer.  
Uses advised against: This product is not recommended for any industrial, professional or consumer use other than the identified uses above.

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Manufacturer: **Owensboro Specialty Polymers, Inc.**  
5529 Highway 2830  
Owensboro, KY 42303  
USA  
1-270-663-1411 Monday –Friday, 8am-4pm Central Time Zone USA  
info@onssp.com

### EMERGENCY PHONE NUMBERS:

Manufacturer: 1-270-663-1411 Monday –Friday 8am-4pm Central Time Zone USA  
1-270-663-1454  
CHEMTREC: 1-800-424-9300 or 1-703-527-3887

## SECTION 2. HAZARD(S) IDENTIFICATION

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

**OSHA HCS 2012 GHS classification paragraph (d) of 29 CFR 1910.1200:** Eye Irritation, Category 2B.  
**Globally Harmonized System of Classification and Labeling (UN-GHS):** Eye Irritation, Category 2B.  
**Canadian Hazardous Products Regulations (HPR) classification WHMIS 2015:** Eye Irritation, Category 2B.

### GHS LABEL ELEMENTS:

Pictogram: None.  
Signal word: Warning  
Hazard statement(s): Causes eye irritation  
Precautionary statement(s): P264-Wash hands and face thoroughly after handling.  
P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313-If eye irritation persists: Get medical advice/attention.

**HAZARDS NOT OTHERWISE CLASSIFIED (HNOC):** None

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	Weight Percent
Vinylidene chloride, methyl acrylate-methyl methacrylate-2-hydroxyethyl acrylate, sulfoethyl methacrylate polymer	63744-65-0	45-53
Water	7732-18-5	47-55

## SECTION 4. FIRST-AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES

**INHALATION:** If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a doctor.

**SKIN CONTACT:** Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/ attention.

**EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**INGESTION:** 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.

**MOST IMPORTANT SYMPTOMS OR EFFECTS THAT ARE ACUTE OR DELAYED:** Red, irritated eyes.

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:** Not expected.

## SECTION 5. FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA:

Suitable extinguishing media: Aqueous product. For fires involving dried material use water, carbon dioxide, dry chemicals, or foam.

Unsuitable extinguishing media: None known.

### SPECIAL HAZARDS ARISING FROM THE CHEMICAL:

Not sensitive to static discharge. During a fire, irritating and highly toxic gases and/or fumes may be generated during combustion or decomposition. Carbon monoxide, carbon dioxide, and hydrogen chloride are the thermal decomposition products. Closed containers may rupture via pressure build-up when exposed to fire or extreme heat.

### PROTECTIVE EQUIPMENT AND PRECAUTIONS 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. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Use personal protective equipment recommended in Section 8. Floor may be slippery, use care to avoid falling. Ensure adequate ventilation. See section 5 for fire-fighting information.

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## ENVIRONMENTAL PRECAUTIONS:

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

## METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP:

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. Avoid creating dust during transfer of solids. Dispose of contents in accordance with local, state or national legislation.

## OTHER INFORMATION:

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothes before re-use. Open container only in well-ventilated area. Avoid breathing vapor or mist. Vapors can be evolved when material is heated during processing operations. Use only with adequate ventilation.

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Keep containers closed when not in use. Do not store in contact with aluminum, zinc, copper, or their alloys or in contact with iron or mild steel, as such contact may cause irreversible product coagulation. Use only 304L or 316L stainless steel, polyethylene, or plastic lined containers for handling and storage. This product is not freeze thaw stable. For product quality, protect against heat, direct sunlight and freezing. Store out of direct sunlight in a cool, well ventilated place. Shelf life is limited. This product should be used as soon as possible.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**OCCUPATIONAL EXPOSURE LIMITS:** None listed for components in Section 3.

**BIOLOGICAL LIMIT VALUES:** None known.

**ENGINEERING CONTROLS:** Vapors can be evolved when material is heated during processing operations. Use only with adequate ventilation.

### PERSONAL PROTECTION:

Respiratory protection:

No special requirements with adequate ventilation. An organic vapor respirator may be required when opening product container in poorly ventilated area or when utilizing product under heated conditions without adequate ventilation.

Hand protection:

Wear impervious gloves.

Eye/face protection:

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.

Skin and body protection:

No special requirements under ordinary conditions of use.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	White, opaque liquid
Odor:	Acrylic
Odor threshold:	Not determined
pH:	2.0 – 2.5
Melting point/freezing point:	~0° C (~32° F)
Initial boiling point and boiling range:	~100° C (~212° F)
Flash point:	Noncombustible
Evaporation rate:	~ same as water
Flammability:	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Vapor pressure:	~ same as water
Vapor density:	~ same as water
Relative density:	1.19-1.24
Solubility(ies):	Miscible in water
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	<250 centipoises

## SECTION 10. STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	Stable under normal conditions.
<b>CHEMICAL STABILITY:</b>	Stable under normal conditions.
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	Not expected under normal conditions.
<b>CONDITIONS TO AVOID:</b>	To avoid thermal decomposition, do not overheat.
<b>INCOMPATIBLE MATERIALS:</b>	Metallic ions, especially aluminum.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon monoxide, carbon dioxide and hydrogen chloride are the thermal decomposition products.

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information On Toxicological Effect:** Data obtained on this product or a similar product.

### LIKLEY ROUTES OF EXPOSURE:

Inhalation:	Not classified as a respiratory irritant.
Ingestion:	Not classified as toxic by ingestion.
Skin:	Not classified as a skin irritant.
Eye:	Eye Irritation, Category 2B.

### SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Eyes may become red and irritated.

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**DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE:** May cause redness and mild, short-lasting discomfort to eyes, based on test data for the product.

## NUMERICAL MEASURES OF TOXICITY:

<b>Acute Toxicity:</b>	No test data available.
<b>Skin Corrosion/Irritation:</b>	Rabbit: Slight skin irritation persisted for 72 hours. Not classified as a skin irritant.
<b>Serious Eye Damage/Irritation:</b>	Rabbit: Corneal involvement or irritation clearing in 7 days or less. Classified as Category 2B, mildly irritating to eyes.
<b>Respiratory/Skin Sensitization:</b>	No test data available.
<b>Germ Cell Mutagenicity:</b>	No test data available.
<b>Carcinogenicity:</b>	No test data available.
<b>Reproductive Toxicity:</b>	No test data available.
<b>STOT-Single Exposure:</b>	No test data available.
<b>STOT-Repeated Exposure:</b>	No test data available.
<b>Aspiration Hazard:</b>	No test data available.

**CARCINOGENICITY:** According to definitions of the U.S. Hazard Communication Standard, components are not listed by NTP, IARC, OSHA, or ACGIH as suspect or proven carcinogens.

## SECTION 12. ECOLOGICAL INFORMATION

<b>ECOTOXICITY:</b>	Data is not available.
<b>PERSISTENCE AND DEGRADABILITY:</b>	Data is not available.
<b>BIOACCUMULATIVE POTENTIAL:</b>	Data is not available.
<b>MOBILITY IN SOIL:</b>	Data is not available.
<b>OTHER ADVERSE EFFECTS:</b>	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.

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal must be in accordance with current applicable laws and regulations and material characteristics at time of disposal. Dispose through suitably qualified or licensed contractor and in accordance with governmental regulations.

Disposal recommendations based on material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste the following hazardous waste characteristic(s) or hazardous waste listings applies:  
If the pH of the material is below 2.0, material is a hazardous waste according to 40 CFR Part 261.22. EPA hazardous waste identification number is D002, CORROSIVE.

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This material is a hazardous waste, according to 40 CFR Part 261.24, when the latex contains  $\geq 0.7$  ppm vinylidene chloride (1, 1-dichloroethylene CAS# 75-35-4) using the Toxicity Characteristic Leaching Procedure. EPA hazardous waste identification number is D029, 1, 1-dichloroethylene.

This product should not be allowed to enter drinking water supplies, drains, sewers, ditches or waterways.

Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulation.

## SECTION 14. TRANSPORTATION INFORMATION

<b>UN Number:</b>	Not regulated.
<b>UN Proper Shipping Name:</b>	SYNTHETIC LATEX/LIQUID RUBBER, NMFC#: 171720
<b>Transport hazard class:</b>	Not regulated.
<b>Packing group number:</b>	Not regulated.
<b>Marine pollutant:</b>	No
<b>Transport in bulk (according to Annex II of MARPOL73/78 and the IBC Code):</b>	Not determined.
<b>Land transport (DOT/ADR/RID):</b>	Not classified as dangerous for transport.
<b>Canada (TDG):</b>	Not classified as dangerous for transport.
<b>Sea transport (IMDG Code):</b>	Not classified as dangerous for transport.
<b>Air transport (ICAO/IATA):</b>	Not classified as dangerous for transport.

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

<b>USA (TSCA) INVENTORY:</b>	Listed
<b>CANADIAN (DSL) INVENTORY:</b>	Listed on DSL
<b>EUROPEAN (EINECS) INVENTORY:</b>	All ingredients conform to the EU requirements

### U.S. REGULATORY INFORMATION

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

**SARA 311/312 Hazard class:** Acute health hazard.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Massachusetts Right to Know Components:** According to definitions and limitations of the regulation there are no hazardous chemicals present that are listed in the Mass Substance list at quantities greater than 1%.

**Pennsylvania Right to Know Components:** According to definitions and limitations of the regulation there are no hazardous ( $\geq 1\%$ ), special hazardous ( $\geq 0.01\%$ ), or environmental hazards ( $\geq 1\%$ ) substances present in the product.

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**New Jersey Right to Know Components:** Vinylidene chloride, methyl acrylate, acrylic acid.

## CANADIAN REGULATORY INFORMATION:

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the Hazardous Products Regulations.

This product is a controlled product under the Hazardous Controlled Products Regulations (HPR).  
WHMIS 2015 Classification: Eye Irritation, Category 2B.

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

## SECTION 16. OTHER INFORMATION

Date of preparation of the latest revision: April 20, 2015  
Changes made since last revision: Address updated. SDS updated to meet UN-GHS and Canadian HPR WHMIS 2015 requirements.  
File code: OSP\_SDS\_SER546L\_USCAN\_E\_Rev.2.0

Key/legend to abbreviations and acronyms:

### Abbreviations and acronyms:

ACGIH	American Conference of Industrial Hygienists
CAS#	Chemical Abstracts Service number
IARC	International Agency for Research on Cancer
LD	lethal dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limits
TLV	Threshold limit value
TSCA	Toxic Substances Control Act
TWA	Time weighted average
SEN	Potential for Sensitization
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity

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