

Safety Data Sheet

Section 1: Identification

Product name: Like90 Clear View™

Product number: 10034 (1-gallon), 10035 (5-gallon), 10037 (1-quart)

Recommended use: Overspray protection for glass, interior applications

Manufacturer: Bonding Solutions, LLC
3703 West Parkway Blvd., West Valley City, UT 84120 USA
Phone: +1 801.988.4267 Email: info@like90.net Web: www.like90.net

Emergency telephone: 800.424.9300 – CHEMTREC

Section 2: Hazard Identification

United States According to OSHA 29 CFR 1910.1200 HCS

Classification: Skin Sensitizer: Category 3
Eye Irritation: Category 2B
Carcinogenicity: Category 2

Label elements: WARNING



Hazard statements: Causes mild skin irritation – H316
Causes eye irritation – H320
Suspected of causing cancer – H351

Precautionary statements

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. – P261
Wear protective gloves/protective clothing/eye protection/face protection. – P280

Response: IF ON SKIN: Wash with plenty of soap and water. – P302 + P352
If skin irritation occurs: Get medical advice/attention. – P332 + P313
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. – P305 + P351 + P338
If eye irritation persists: Get medical advice/attention. – P337 + P313
Wash contaminated clothing before reuse. – P363

Storage/Disposal: Keep container tightly closed. – P233

Store locked up. – P405

Dispose of contents/container in accordance with applicable local/regional/national regulations. – P501

Canada

According to WHMIS

WHMIS

This product is regulated as a hazardous material by the Canadian Controlled Product Regulations and is a controlled product under the Workplace Hazardous Materials Information System.

Classification:

D2A: Very Toxic Material (due to presence of residual vinyl acetate)

Other Information

Vinyl acetate

Product contains residual vinyl acetate, an IARC 2B possible human carcinogen based on limited animal data.

HMIS Ratings:

Health: 1 Fire: 0 Physical Hazard: 0

(Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; * = Chronic hazard)

Section 3: Composition / Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

| CAS # | Chemical Name | % by weight |
|---------------|------------------------------------|-------------|
| 7732-18-5 | Water | 55 – 65 |
| Not available | Proprietary polymers and compounds | 30 – 35 |
| 57-55-6 | Propylene glycol | 1 – 5 |
| 108-05-4 | Vinyl acetate (residual) | 0.2 – 0.4 |

The exact percentage of this composition has been withheld as a trade secret.

Section 4: First Aid Measures

Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

Ingestion:

Not an expected route of exposure. If swallowed, get medical attention immediately. If conscious, drink plenty of water. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

See section 11 – Toxicological Information.

Indication of any immediate medical attention and special treatment required

Not applicable.

Section 5: Fire-fighting Measures**Suitable extinguishing media**

In case of fire: Use a fire-fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode. Dried film of coating will burn when free from the substrate.

Hazardous decomposition or by-products

Carbon monoxide During combustion

Carbon dioxide During combustion

Acetaldehyde During combustion

Formaldehyde During combustion

Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

NFPA Ratings: Health: 1 Flammability: 0 Instability: 0 Special Hazards = None

(Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Section 6: Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Ventilate the area with fresh air. For a large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

Methods and material for containment and cleaning up

Contain spill. Work from around the edges of the spill inward and cover with commercially available inorganic absorbent material. Mix in sufficient absorbent material until it appears dry. Shovel as much of the material as possible into a suitable container. Seal the container and dispose of as soon as possible. Clean up residue with detergent and water.

Section 7: Handling and Storage**Precautions for safe handling**

For industrial use only. Avoid contact with skin and eyes. Wash thoroughly after handling. Use with adequate ventilation and avoid breathing vapors or mists of this product. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Keep containers closed and in a cool, well-ventilated area. Protect from sunlight. Store away from heat. Store away from acids and oxidizers. Material is freeze-thaw stable but best practice for any water-borne coating is to protect from freezing whenever possible.

Section 8: Exposure Controls / Personal Protection**Control parameters**

Occupational exposure limits

If a component is disclosed in section 3 but does not appear here, an occupational exposure limit is not available for the component.

| CAS # | Chemical Name | Agency | Limit Type |
|----------|------------------|--------|--|
| 108-05-4 | Vinyl acetate | ACGIH | TWA: 10 ppm; STEL: 15 ppm |
| 108-05-4 | Vinyl acetate | OSHA | TWA: 30mg/m ³ ; STEL: 60mg/m ³ |
| 57-55-6 | Propylene glycol | AIHA | TWA: 10mg/m ³ |

Key to abbreviations ACGIH = American Conference of Governmental Industrial Hygienists; AIHA = American Industrial Hygiene Association; OSHA = Occupational Safety and Health Administration; STEL = Short Term Exposure Limit; TWA = Time-Weighted Average based on 8hr/day and 40hr/week exposures

Exposure controls

Engineering controls Provide adequate ventilation as needed to control concentrations of airborne contaminants below applicable exposure limits. If ventilation is not adequate, use respiratory protection equipment.

Personal protective equipment

Respiratory An exposure assessment may be needed to decide if a respirator is required. If needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, use either a half-facepiece or full-facepiece air-purifying respirator suitable for particulates. Consult respirator manufacturer for suitability for a specific application.

Eye/face protection Safety glasses with eye shields are recommended.

Skin/hand protection Wear protective gloves with cuffs. Normal work clothing (long sleeves and pants) is recommended.

General industrial hygiene Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Environmental exposure Follow best practice for site management and disposal of waste. Avoid release to the environment.

Section 9: Physical and Chemical Properties**Basic physical and chemical properties**

| | | | |
|----------------|-----------------|--|--------------------------------|
| Physical form: | Liquid | Solubility (non-water): | No data available |
| Color: | White | Percent volatile: | 62% |
| Odor: | Mild | VOC: | 0.10% weight; 1/l [calculated] |
| pH: | 4 - 7 | VOC (less H ₂ O & exempts): | 3 g/l [calculated] |
| Boiling point: | 212° F (100° C) | Evaporation rate: | No data available |

| | | | |
|--------------------|-----------------------------------|----------------------------|-------------------|
| Flash point: | ≥200° F [Test method: Closed Cup] | Flammability (solid, gas): | Not applicable |
| Density: | 1.06 g/ml | Flammable Limits (LEL): | No data available |
| Specific gravity: | 1.06 [Water = 1] | Flammable Limits (UEL): | No data available |
| Weight per gallon: | 8.8 lbs | Vapor pressure: | No data available |
| Viscosity: | 400 – 800 cps [Brookfield] | Vapor density: | No data available |
| Solubility (H2O): | Emulsion | | |

Section 10: Stability and Reactivity

| | |
|-------------------------------------|--|
| Reactivity: | No dangerous reaction known under conditions of normal use. |
| Chemical stability: | Stable |
| Possibility of hazardous reactions: | Hazardous polymerization will not occur. |
| Conditions to avoid: | Freezing temperatures; Heat |
| Incompatible materials: | Strong oxidizing agents |
| Hazardous decomposition products: | None known. Refer to section 5 for hazardous decomposition products during combustion. |

Section 11: Toxicological Information

Information on toxicological effects

| | |
|---------------------|--|
| Signs and symptoms: | Based on component information, this material may produce the following health effects: |
| Inhalation: | Respiratory tract irritation: signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. |
| Skin contact: | Contact with skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): signs/symptoms may include redness, swelling, blistering, and itching. |
| Eye contact: | Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. |
| Ingestion: | Gastro-intestinal irritation: signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. |

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Chemical Name | Route | Species | Value |
|------------------|------------|---------|---|
| Vinyl acetate | Inhalation | Rat | LC50: 11400 mg/m ³ (4 hours) |
| Vinyl acetate | Inhalation | Mouse | LC50: 1550 mg/kg (4 hours) |
| Vinyl acetate | Oral | Rat | LD50: 2920 mg/kg |
| Vinyl acetate | Oral | Mouse | LD50: 1613 mg/kg |
| Vinyl acetate | Dermal | Rabbit | LD50: 2335 mg/kg |
| Propylene glycol | Ingestion | Rat | LD50: >20,000 mg/kg |

| | | | |
|------------------|------------|--------|---------------------------------------|
| Propylene glycol | Dermal | Rabbit | LD50: >2,000 mg/kg |
| Propylene glycol | Inhalation | Rabbit | LC50: 317.042 mg/l (2 hours, aerosol) |

Skin Corrosion / Irritation Either no data are currently available or the data are not sufficient for classification.

Serious Eye Damage / Irritation Either no data are currently available or the data are not sufficient for classification.

Skin Sensitization Either no data are currently available or the data are not sufficient for classification.

Photosensitization Either no data are currently available or the data are not sufficient for classification.

Respiratory sensitization Either no data are currently available or the data are not sufficient for classification.

Germ cell mutagenicity Either no data are currently available or the data are not sufficient for classification.

Carcinogenicity

| Chemical Name | Agency | Classification |
|---------------|--------|---|
| Vinyl acetate | ACGIH | A3 – confirmed animal carcinogen with unknown relevance to humans |
| Vinyl acetate | IARC | Monograph 63, 1995 (Group 2B (possibly carcinogenic to humans)) |

Reproductive Toxicity Either no data are currently available or the data are not sufficient for classification.

Reproductive and/or developmental effects

Target Organ(s)

Specific Target Organ Toxicity - single exposure Either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity – repeated exposure Either no data are currently available or the data are not sufficient for classification.

Aspiration hazard Either no data are currently available or the data are not sufficient for classification.

Section 12: Ecological Information

Toxicity – Aquatic toxicity of components

| Chemical Name | Species | Test |
|------------------|----------------|-------------------------|
| Vinyl acetate | Fathead minnow | 96 hr LC50: 31.0 mg/l |
| Vinyl acetate | Bluegill | 96 hr LC50: 31.0 mg/l |
| Vinyl acetate | Goldfish | 96 hr LC50: 31.0 mg/l |
| Vinyl acetate | Water flea | 24 hr EC50: 52.0 mg/l |
| Propylene glycol | Rainbow trout | 96 hr LC50: 40,613 mg/l |
| Propylene glycol | Water flea | 48 hr LC50: 18,340 mg/l |

Persistence and degradability

Product is an aqueous polymer emulsion that is expected to rapidly disperse in the aquatic environment. Polymers are not readily biodegradable.

Bioaccumulative potential No data available

Mobility in soil No data available

Other adverse effects No data available

Section 13: Disposal Considerations

Disposal methods

Avoid disposal. Completely utilize product, if possible. Dispose unused product and container in accordance with local, regional, national, and international regulations. Incinerate unused product in a permitted waste incineration facility. As a disposal alternative, dispose of waste product in a permitted industrial waste facility.

EPA Hazardous Waste Number (RCRA): Not regulated

Section 14: Transport Information

US DOT information: Not regulated as a hazardous material.

TDG information: Not regulated as a dangerous good.

IMDG information: Not regulated as a dangerous good.

IATA information: Not regulated as a dangerous good.

Transportation during cold weather

This product is freeze-thaw stable and will function properly if it is frozen and then thawed. However, whenever possible, minimize the number of freeze cycles to which the product is exposed during transportation.

Section 15: Regulatory Information

U.S. Federal Regulations

Chemical inventory: All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

General information: No additional information available.

Component analysis: This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

| | | |
|---------------|----------|--|
| Vinyl acetate | SARA 302 | 1000 lb. Threshold Planning Quantities |
| Vinyl acetate | SARA 313 | 0.1% de minimis concentration |
| Vinyl acetate | CERCLA | 5000 lb. final Reportable Quantity; 2270 kg final RQ |

State Regulations

General information: Other state regulations may apply. Check individual state requirements.

Component analysis: The following components appear on one or more of the following state hazardous substances lists:

| CAS # | Chemical Name | CA | MA | MN | NJ | PA | RI |
|----------|------------------|-----|-----|-----|-----|-----|-----|
| 108-05-4 | Vinyl acetate | Yes | Yes | Yes | Yes | Yes | Yes |
| 57-55-6 | Propylene glycol | No | No | No | No | Yes | No |

Canadian WHMIS information

Chemical inventory: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

General information: This product is regulated as a hazardous material by the Canadian Controlled Product Regulations and is a controlled product under the Workplace Hazardous Materials Information System.

See Section 2 for more information.

Component analysis: The following components are identified under the Canada WHMIS Ingredient Disclosure List.

| CAS # | Chemical Name | Minimum Concentration for Disclosure |
|----------|---------------|--------------------------------------|
| 108-05-4 | Vinyl acetate | 0.1% |

Section 16: Other Information**Other information**

DISCLAIMER: For industrial use only. Reasonable care has been taken in the preparation of this information and is believed to be accurate as of the date issued. Seller does not suggest or guarantee that any hazards listed herein are the only ones which exist and makes no warranty of any kind, express or implied, concerning the safe use of this material in user's process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials.

SELLER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for the user's method of use or application.