

Crown Low VOC Hard Coat SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier: Crown Low VOC Hard Coat

Manufacturer Name: Packaging Service Co., Inc.
Address: 1904 Mykawa Road
Pearland, TX 77581
1-281-485-1458

Telephone number:

Emergency phone number:: CHEMTREC: 1-800-424-9300 (USA)
CANUTEC: 1-613-996-6666 (Canada)

Recommended use: Paint emulsion

Restrictions on use: Use only as directed.

Date of Preparation: September 4, 2015

2. HAZARD(S) IDENTIFICATION

Classification:

Physical	Health
Not hazardous	Eye Irritation Category 2 Skin Sensitization Category 1B

Warning!



Hazard statement(s)

Causes serious eye irritation.
May cause an allergic skin reaction

Precautionary statement(s)

Avoid breathing mist, vapors or spray.
Wash hands thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves and eye and face protection.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical attention.
Wash contaminated clothing before reuse.
IF IN EYES: 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 or attention.
Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Glycerin	56-81-5	1-5%
Surfactant	68439-46-3	1-3%
Light Stabilizer	Mixture	0.1-1%
d-Limonene	5989-27-5	0.1-1%
Ammonium hydroxide	1336-21-6	0.1-1%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation: Remove victim to fresh air. If irritation occurs or breathing is difficult, get medical attention.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. If irritation or rash develops, get medical attention. Launder clothing before reuse.

Eye contact: Immediately flush eyes with water for several minutes while lifting the upper and lower lids. Get medical attention if irritation persists.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention.

Most important symptoms/effects, acute and delayed: Causes serious eye irritation. May cause mild skin irritation. May cause sensitization by skin contact. Inhalation of mists may cause upper respiratory tract irritation. Swallowing large amounts may cause gastric upset.

Indication of immediate medical attention and special treatment, if necessary: If sensitization occurs, discontinue use and get medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use water spray, carbon dioxide, dry chemical or foam to extinguish a fire.

Specific hazards arising from the chemical: This product is an aqueous solution. Once the water has evaporated, the product may burn.

Special protective equipment and precautions for fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposure containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing as described in Section 8. **Caution: spill may present a slip hazard.**

Environmental Precautions: Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

Methods and materials for containment and cleaning up: Collect using an inert absorbent material and place in appropriate container for disposal. Clean spill area thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use with adequate ventilation. Wash exposed skin thoroughly with soap and water after use.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated area away from oxidizing agents. Protect from physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Glycerin (mist)	15 mg/m ³ TWA (Total dust) OSHA PEL 5 mg/m ³ TWA (Respirable fraction) OSHA PEL
Surfactant	None Established
Light Stabilizer	None Established
d-Limonene	30 ppm AIHA WEEL
Ammonium hydroxide	None Established

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to keep exposures below occupational exposure limits and to minimize exposure levels.

Individual protection measures:

Respiratory protection: None needed under normal use conditions. If exposure limits are exceeded, a NIOSH approved respirator with organic vapor cartridges or supplied air respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

Skin protection: Impervious gloves recommended if contact is possible.

Eye protection: Chemical safety goggles recommended if splashing is possible.

Other: Suitable washing and eye flushing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES
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Appearance (physical state, color, etc.): Milky white emulsion

Odor: Mild citrus odor

Odor threshold: Not available	pH: Not available
Melting point/freezing point: Not available	Boiling Point: >212°F / >100°C
Flash point: Not flammable	Evaporation rate: Not available
Flammability (solid, gas): Not applicable	VOC: 25 g/L (Calculated by CARB Method)
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not available	Vapor density: Not available
Relative density: 1.02	Solubility(ies): Dispersible in water
Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: Not available
Decomposition temperature: Not available	Viscosity: Not determined

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical stability: Stable.

Possibility of hazardous reactions: None known.

Conditions to avoid: None known.

Incompatible materials: Avoid oxidizing agents.

Hazardous decomposition products: Thermal decomposition may yield carbon, nitrogen and sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Acute effects of exposure:

Inhalation: Inhalation of vapors or mists may cause irritation of the mucous membranes and upper respiratory tract.

Ingestion: Swallowing may cause irritation to the mouth throat and stomach with nausea, vomiting and diarrhea.

Skin contact: May cause mild irritation with redness and itching. May cause sensitization by skin contact.

Eye contact: Causes serious irritation with redness and tearing.

Chronic Effects: None known.

Sensitization: D-Limonene and light stabilizer have been shown to cause sensitization in studies with laboratory animals.

Germ Cell Mutagenicity: None of the components have been shown to cause germ cell mutagenicity.

Reproductive Toxicity: None of the components have been shown to cause reproductive or developmental toxicity.

Carcinogenicity: None of the components are listed as carcinogens or suspected carcinogens by IARC, NTP, ACGIH or OSHA.

Acute Toxicity Values:

Surfactant: Oral rat LD50 1378 mg/kg; Dermal rabbit LD50 5000 mg/kg

Light stabilizer: Oral rat LD50 >5000 mg/kg; Inhalation rat LC50 >5800 mg/L; Dermal rabbit LD50 >2000 mg/kg

d-Limonene: Oral rat LD50 >2000 mg/kg (structurally similar chemical)

12. ECOLOGICAL INFORMATION

This product may be harmful to aquatic organisms according to the GHS criteria.

Ecotoxicity values:

Surfactant: 96 hr LC50 *Oncorhynchus mykiss* 2.4 mg/L; 48 hr EC50 *daphnia magna* 7.5 mg/L; 72 hr algae 7.5 mg/L

Light Stabilizer: No toxicity data available.

d-Limonene: 96 hr LC50 *Pimephales promelas* 720 µg/L; 48 hr EC50 *daphnia magna* 0.36 mg/L

Persistence and degradability: d-Limonene is readily biodegradable. Surfactant is readily biodegradable.

Bioaccumulative potential: d-Limonene has a calculated BCF of 660.

Mobility in soil: No data available.

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
IATA		Not Regulated			

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known.

15. REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

CERCLA: This product has a Reportable Quantity (RQ) of 200,000 lbs. based on the RQ for ammonium hydroxide of 1,000 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:

None above de-minimus concentrations

EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

California Proposition 65: Warning: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

CANADA:

Canadian CEPA: All the components of this product are listed on the Canadian DSL.

16. OTHER INFORMATION

NFPA Rating: Health = 2 Flammability = 1 Instability = 0
HMIS Rating: Health = 2 Flammability = 1 Physical Hazard = 0

SDS Revision History: Section 3 Composition, Section 8 Exposure Limits, Section 9 Relative Density, VOC

Date of preparation: May 21, 2015

Date of last revision: September 4, 2015