

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** 6900 SERIES VINYL ESTER TOOLING GELCOAT

**Product Identification Number(s)** 69XX Clear, Orange, Black

**Manufacturer/Supplier**

Simtec, Inc.

1006 W. Grove Ave

Orange, CA 92865

**Product Use** Marine & Mold Making

**OSHA Status** hazardous

North America Emergency: +1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

## 2. COMPOSITION INFORMATION ON INGREDIENTS

(Typical composition is given, and it may vary. A certification can be provided.)

Component	Weight %	CAS Registry No.
Styrene Monomer	20-25 %	100-42-5
Methyl Ethyl Keytone	1-5 %	78-93-3
Butyl Acetate Normal	.5-3%	123-86-4
Ethyl Acetate	1-3%	141-78-6
Aliphatic Hydrocarbon	.5-2%	64742-89-81
Acetone	.5-3%	67-64-1

2-3% residual additives, modifiers, colorants, reactants, and/or Impurities. Powders.

## 3. HAZARDS IDENTIFICATION

WARNING! CONTAINS STYRENE POSSIBLE CANCER HAZARD - MAY CAUSE CANCER BASED ON ANIMAL DATA HARMFUL IF INHALED, ABSORBED THROUGH SKIN, OR SWALLOWED CAUSES SKIN AND EYE IRRITATION FLAMMABLE LIQUID AND VAPOR MAY FORM EXPLOSIVE PEROXIDES MAY POLYMERIZE THE PHYSICAL-CHEMICAL AND TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED

**HMIS® Hazard Ratings:** Health - 2\*, Flammability -3, Chemical Reactivity - 1

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for

rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of

this material, all the information contained in this MSDS must be considered.

## 4. FIRST-AID MEASURES

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

**Ingestion:** Call a physician or poison control center immediately. Induce vomiting as directed by

medical personnel. Never give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** water spray, dry chemical, carbon dioxide, foam

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

Fight fire from a protected location. Use water spray to keep fire-exposed containers cool. USE WATER WITH CAUTION. Water may be ineffective in fighting the fire.

**Hazardous Combustion Products:** carbon dioxide, carbon monoxide

**Unusual Fire and Explosion Hazards:** Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. May form explosive peroxides. Fire or excessive heat may result in rupture of container due to bulk polymerization. Heating may cause an explosion.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. (See Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.) Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

## 7. HANDLING AND STORAGE

**Personal Precautionary Measures:** Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Keep away from heat, sparks, and flame. Keep from contact with oxidizing materials. Use only with adequate ventilation. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Do not expose to air. After opening, purge container with nitrogen before reclosing. Do not distill to near dryness. Periodically test for peroxide formation on long-term storage. If peroxide formation is suspected, do not open or move container. Addition of water or appropriate reducing materials will lessen peroxide formation.

**Storage:** Keep container tightly closed. Store in a cool place. Store away from heat and light. Protect from contamination.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Country specific exposure limits have not been established or are not applicable unless listed below.**

### STYRENE, MONOMER

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 20 ppm, 85 mg/m<sup>3</sup>

US. ACGIH Threshold Limit Values

Short Term Exposure Limit (STEL): 40 ppm, 170 mg/m<sup>3</sup>

### STYRENE

US. NIOSH: Pocket Guide to Chemical Hazards

Recommended exposure limit (REL): 50 ppm, 215 mg/m<sup>3</sup>

US. NIOSH: Pocket Guide to Chemical Hazards

Short Term Exposure Limit (STEL): 100 ppm, 425 mg/m<sup>3</sup>

US. OSHA Table Z-2 (29 CFR 1910.1000)

Time Weighted Average (TWA): 100 ppm,

US. OSHA Table Z-2 (29 CFR 1910.1000)

Ceiling Limit Value: 200 ppm,

US. OSHA Table Z-2 (29 CFR 1910.1000)  
Maximum concentration: 600 ppm, 5 minutes  
in any 3 hours  
US. OSHA Table Z-1-A (29 CFR 1910.1000)  
Time Weighted Average (TWA): 50 ppm, 215  
mg/m<sup>3</sup>  
US. OSHA Table Z-1-A (29 CFR 1910.1000)  
Short Term Exposure Limit (STEL): 100 ppm,  
425 mg/m<sup>3</sup>

**Ventilation:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. NOTE: Some countries might not have established exposure limits.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: air-purifying respirator with a high efficiency particulate filter

**Eye Protection:** Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

**Skin Protection:** Wear chemical-resistant gloves, boots, and protective clothing appropriate for the risk of exposure. Contact glove manufacturer for specific information.

**Recommended Decontamination Facilities:** eye bath, washing facilities, safety shower

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** viscous liquid

**Color:** Tan

**Odor:** Solvent

**Specific Gravity:** 1.04 (25 °C)

**Boiling Point:** > 64 °C

**Solubility in Water:** negligible

**Flash Point:** 34 °C (Setaflash closed cup)

**Coating VOC** 2.27 LBS/Gal As Supplied

**Thermal Decomposition Temperature:** Thermal stability not tested. Low stability hazard expected at normal operating temperatures.

## 10. STABILITY AND REACTIVITY

**Stability:** Not fully evaluated. Materials containing similar functional groups form explosive peroxides.

**Incompatibility:** Material reacts with strong oxidizing agents, metals, strong acids.

**Hazardous Polymerization:** may occur; Avoid initiators, heat, acids, extended storage period.

## 11. TOXICOLOGICAL INFORMATION

Toxicity data are not available unless listed below.

## 12. ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

## 13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

#### **14. TRANSPORT INFORMATION**

**Marine pollutant components: none unless listed below**

**Reportable Quantity:** 1,135 kg

**Technical Shipping Name:** Resin Solution

**Freight Class** 55

**UN #** UN 1866

**DOT (USA):** Class 3 Packing group III

**TDG (Canada):** Class 3 Packing group III

**ICAO Status:** Class 3 Packing group III

**IMDG Status:** Class 3 Packing group III

#### **15. REGULATORY INFORMATION**

**WHMIS (Canada) Status:** controlled

**WHMIS (Canada) Hazard Classification:** B/2, D/2/A

**SARA 311-312 Hazard Classification(s):**

immediate (acute) health hazard

delayed (chronic) health hazard

fire hazard

**SARA 313: none, unless listed below**

STYRENE

**Carcinogenicity Classification (components present at 0.1% or more): none, unless listed below**

**IARC (International Agency for Research on Cancer):**

styrene: possibly carcinogenic to humans

**TSCA (US Toxic Substances Control Act):** All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

**DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act):** All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.

#### **16. OTHER INFORMATION**

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment.

Effective Date 11-27-09

Approved By: MIKE DEVRIES