

# MATERIAL SAFETY DATA SHEET

**Trade Name:** AIRDY ADDITIVE

**Chemical Family:** Styrene

**Formula:** Mixture

**Manufacturer:** Duraglass Composites Corp.  
Unit G-30694 Simpson Road  
Abbotsford, B.C., V2T 6C7

**Supplier:** COAST FIBER-TEK  
1306 Boundary Road  
Burnaby, BC V5K 4T6  
Tel.# (604) 294-8116

**Emergency Phone #:** (604)850-1321

**Transportation EMG. Phone #** CANUTEC (613) 996-6666  
(604) 930-0650

## HAZARDOUS INGREDIENTS:

Styrene: 80-100% CAS # 100-42-5

Exposure Limits: LD50 oral rat 5000 mg/kg, LC50 5640 ppm/4hr - rat  
ACGIH-TLV-TWA – 20 ppm, OSHA 8 hr EL – 50ppm, ACGIH TLV – 85 mg/m<sup>3</sup>,  
WCB 8h EL – 50 mg/m<sup>3</sup>, WCB 15 min EL – 75 mg/m<sup>3</sup>

## PHYSICAL DATA:

Appearance & Odour: Colorless to light yellow liquid, almost floral odor at low concentrations: sharp penetrating odor at high concentrations

Vapour Pressure: (mm Hg) 4.5 mm of HG (@20 °C )

Vapour Density: (air = 1) 3.6

Solubility in Water: 0.1 to 1.0%

Specific Gravity: 0.7.1

Boiling point: 145 °C

## FIRE & EXPLOSION DATA:

Flashpoint & Method: 31°C (PMCC)

Flammable Limits: LFL 0.09%, UFL 6.8%

Extinguishing Methods: foam, dry chemical, CO<sub>2</sub>, water spray or fog & alcohol foam. Water may not be effective since it may not cool styrene below it's flash point. Flammable liquid is insoluble in water.

Special Equipment & Procedures: Water can be used when applied as a spray to absorb heat and protect exposed material or structures. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop a leak. Fight fire from upwind to avoid exposure to combustion products. Self-contained breathing apparatus & complete protective clothing. Keep all sources of ignition away as fumes may ignite.

## REACTIVITY DATA:

Conditions Contributing to Instability: Increased pressure and high temperature.

Incompatible Substances: Strong acid, oxygen, oxidizing materials, alkali metal, graphite compounds, metallic halide salts, peroxides, azoisobutyronitrile, butyllithium and halogens.

Hazardous Decomposition Products: CO, styrene oxide

Hazardous Polymerization: Will occur at high temperatures (> 65 °C )

## HEALTH HAZARDS DATA:

**NOTE:** Health studies have shown that exposure to chemicals pose potential risks which may vary from person to person. Exposure to liquids, vapours, mists or fumes should be minimized.

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## **PRINCIPAL HEALTH HAZARDS:**

Skin Contact: Contact may cause dry skin, irritate skin or dermatitis  
Eye Contact: Liquid or spray mist may produce tissue damage on mucous membranes of eyes. May cause slight irritation.  
Ingestion: May cause gastrointestinal disturbances, pain & discomfort.  
Inhalation: May cause irritation of the respiratory tract, narcosis and possible lung damage.  
Chronic Effects: Contains styrene monomer, a possible carcinogen.

## **FIRST AID PROCEDURES:**

Skin: Wash with soap & water. Seek medical attention if irritation persists.  
Eyes: Check and remove any contact lenses. Flush with flowing water for 15 minutes. If irritation persists, obtain medical attention.  
Ingestion: **DO NOT INDUCE VOMITING**, have victim drink 8 to 10 oz. of water to dilute material in stomach. Do not give anything by mouth to a convulsing or unconscious person. Seek medical attention.  
Inhalation: Remove to fresh air, give oxygen or artificial respiration as required, seek medical attention.

## **PREVENTIVE MEASURES:**

Skin: Always apply appropriate barrier cream to exposed skin. Wear impervious gloves (butyl rubber), coveralls and safety footwear.  
Eyes: Chemical proof goggles or full face respirator if vapours cause eye irritation.  
Ingestion: Wash thoroughly before consuming food stuffs.  
Inhalation: Use only in well ventilated areas or use NIOSH or CAS approved respiratory protection with organic vapour cartridges.

## **CONTROL MEASURES & PRECAUTIONS**

Keep container tightly closed. Do not consume food, drink or tobacco in work area or material storage areas. Use caution and personal cleanliness to avoid skin and eye contact. Avoid breathing vapours of heated materials. Use paper covering absorbent wipes and suitable disposable containers in work area.

## **SPILL, LEAK & DISPOSAL METHODS**

**Review fire and explosion hazards and safety precautions before proceeding with clean up.** Restrict access to area. Contain spill to prevent liquid from entering sewers or waterways. Recover free liquid and use an absorbent material (i.e. sand, vermiculite) to soak up balance. Place in suitable container for disposal.

## **DISPOSAL METHOD**

Dispose only in a facility permitted to dispose of hazardous waste by Federal, Provincial and Municipal regulations.

## **SHIPPING INFORMATION**

**Shipping Name:** Styrene Monomer, stabilized  
**Hazard Class:** 3  
**UN/PIN #:** 2055 III  
**Flashpoint:** 31°C  
**WHMIS:** B2, D2A,D2B, F

The information contained herein is based on data that we believe to be accurate. No warranty either expressed or implied is made. This information is offered solely for your consideration interpretation and information.

**Preparation Date:** February 21, 1993  
**Prepared by:** Nigel Poore, 1306 Boundary Road, Burnaby, BC V5K 4T6  
**Telephone #:** (604) 294-8116  
**Revised Date:** January 5, 2010

N/A = Not Available