

Material Safety Data Sheet

Sintra 12.700 Standard Density

Section I	Product Identification
Manufacturer:	Alcan Composites USA, Inc. 208 W. 5 th Street, P.O. Box 507 Benton, KY 42025 (270) 527-4200
Emergency Phone Number:	1-800-424-9300 Chemtrec To be used only in the event of chemical emergencies involving a spill, leak, fire, and exposure accidents involving chemicals.
Trade Name:	Sintra® or Sintra®top
Synonym:	Expanded PVC Sheet, Polyvinyl Chloride Sheet, Sintra 12.700 Standard Density

Section II	Material Identification and Information		
Ingredients	Percent (%) (By wt.)	Occupational Exp. Limits (TWA) ACGIH	Occupational Exp. Limits (PEL) OSHA
Polyvinyl Chloride	75-85	10.0 mg/m ³	15.0 mg/m ³ Total ⁽²⁾ 5.0 mg/m ³ Resp. ⁽²⁾
Antimony Trioxide ⁽¹⁾	<3.0	0.5 mg/m ³	0.5 mg/m ³
Cadmium Compounds ⁽¹⁾	<1.0	0.05 mg/m ³	5.0 µg/m ³
Lead Compounds ⁽¹⁾	<2.0	0.15 mg/m ³	0.05 mg/m ³
Calcium Carbonate	<5.0	10.0 mg/m ³	15.0 mg/m ³ Total ⁽²⁾ 5.0 mg/m ³ Resp. ⁽²⁾
Titanium Dioxide	<5.0	10.0 mg/m ³	10.0 mg/m ³ Total ⁽²⁾ 5.0 mg/m ³ Resp. ⁽²⁾
Other	5-10		

Section III	Physical Data
Appearance and odor:	Odorless, plastic sheet
Melting point:	>350 °F
Sp. Gravity:	0.7 – 0.9 g/ccm range
Solubility:	Insoluble in water

(1) Chemicals subject to the reporting requirements of section 313 of title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

(2) Regulated as a nuisance dust or particulate, N.O.S.

Material Safety Data Sheet

Sintra 12.700 Standard Density

Section IV	Fire and Explosion Data
Auto Ignition:	N/A
Flash point:	(ASTM D-1929) >700 °F
Extinguishing media:	CO ₂ , dry chemical, water spray as a cooling method.
Special fire fighting procedure:	self-contained breathing apparatus should be worn.
Unusual fire and explosion hazards:	PVC will burn in the presence of supported combustion, and will emit hydrogen chloride gas, benzene, water, carbon monoxide, carbon dioxide, and smoke.

Section V	Reactivity Data
Stability:	Stable
Incompatibility:	None known
Decomposition products:	Reference: "Unusual fire and explosion hazards", Section IV

Section VI	Health Hazard Data
<p>These products are not considered to be a health hazard in the form in which they are sold (sheet, panel). However, if these products are abraded, melted, welded, cut or processed in any manner that causes release of fumes or dusts, hazardous levels of fumes or dusts may be generated from this product.</p>	

Effects of overexposure:

Acute:	<p>Physical irritation of the eyes may result from overexposure to high concentrations of dust from certain fabricating operations.</p> <p>Repeated skin overexposure to antimony trioxide can result in skin irritations.</p>
Chronic:	<p>Repeated long term inhalation of antimony trioxide may cause inflammation of the upper and lower respiratory tract and/or fibrosis. Antimony has been determined by IARC as a Group IIB carcinogen.</p> <p>Studies have shown that workers exposed for long periods to high concentrations of respirable PVC dust may retain the dust in their lungs. There is no evidence of a toxic response associated with such PVC dust retention.</p> <p>Repeated long-term inhalation/ingestion of lead may lead to weariness, headache, severe constipation and colic. It has been determined that lead is a reproductive toxin.</p> <p>Cadmium overexposure may effect the central nervous system and cause muscle contractions. Cadmium has been determined by IARC as a Group IIA carcinogen.</p>

Material Safety Data Sheet

Sintra 12.700 Standard Density

Special Precautions:	<p>Avoid prolonged inhalation of high dust concentrations and ingestion of material.</p> <p>Wash hands before eating, drinking or smoking.</p> <p>Wear proper eye and respiratory protection when working in areas of high dust concentrations.</p> <p>Care should be taken during thermoforming operations. When temperatures exceed 350 °F, decomposition of the material may occur.</p>
Emergency and first aid procedures:	<p>If contact with eyes, wash immediately under water for at least 15 minutes.</p> <p>For inhalation exposure, remove to fresh air. Contact a physician.</p>

Section VII Storage, Handling, and Disposal Data

Waste disposal:	Care must be taken when using or disposing of material debris to prevent environmental contamination. Dispose of the debris in accordance with the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act and all state or local laws / regulations regarding disposal.
Storage and handling precautions:	<p>Store in a flat dry area</p> <p>Exercise caution in all thermal forming procedures.</p>

Section VIII Personal Protection Data

Primary routes of entry are:	Inhalation and ingestion
Respiratory protection:	An approved NIOSH/MSHA respirator must be used when engineering controls cannot be implemented to control dust concentrations. Reference OSHA 1910.134 for specific requirements.
Ventilation:	Local exhaust. Reference OSHA 1910.94 for specific requirements.
Eye:	Eye protection must be worn when working in dust concentrations and during sawing or other operations which might cause flying debris. Reference OSHA 1910.133 for specific requirements.
Protective glove:	Gloves should be used to prevent cuts or abrasions.