Safety Data Sheet

Sintra® Eclipse

Revision Date: 5/1/2018 Initial Release Date: 10/01/2017 Version 2.0

Section 1. Product Identification

Product name: Sintra® Eclipse, Expanded PVC

Company Identification

3A Composites USA, Inc.
3480 Taylorsville Highway
Statesville, NC 28687-1839

Customer Information Number: (800) 872-8974

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.

Section 2. Hazard Identification

Physical Appearance: Medium weight rigid panel with white surface treatment

Potential Health Effects:
This product is classified as a non-hazardous component when polymerized. Avoid breathing fumes if abraded, melted, welded, cut or processed.

Other hazards: No data available

Section 3. Chemical Composition

Ingredients:	CAS Number	Percent % (by weight) *
Polyvinyl Chloride	9002-86-2	80 – 95
Titanium Dioxide	1317-80-2	4 – 8
Calcium Carbonate	471-34-1	1 - 5

Section 4. First Aid Measures

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 these products.
Eye Contact: Dust may mechanically irritate the eyes, resulting in redness or watering. Treat dust in eye as foreign object. Flush with water to remove dust particles. Get medical help if irritation persists.
Skin Contact: Not anticipated for product in purchased form, wash with mild soap and water.
Inhalation: If inhalation causes adverse effects, respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.
Note to Physician: No special advice, treat symptomatically
Ingestion: Not likely to occur for product in purchased form.
Inhalation: Excessive dust concentrations may cause unpleasant obstruction in the nasal passages.
Skin Absorption: Product is not absorbed through the skin.

Section 5. Fire Fighting Measures

Extinguishing media: Water, foam, CO_2, dry chemical powder

Special firefighting procedure: Toxic gases may form upon combustion. Respiratory protection is recommended.

Unusual fire and explosion hazards: PVC will burn in the presence of supported combustion and will emit hydrogen chloride gas, benzene, water, carbon dioxide and smoke.

Because static sparking can occur during handling, all flammable materials should be removed from the immediate vicinity.

Section 6. Accidental Release

A release should not occur. However, if these products are abraded, melted or cut, dusts may be generated. Should a release of dusts occur, contain by blocking routes to surface water and grassy areas. Clean up by sweeping and depositing into a closed container.

Section 7. Handling and Storage

Store in a flat dry area. Handle carefully to avoid scratching product finish.
Exercise caution in all thermal forming activities.

Section 8. Exposure Controls

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 these materials or constituents of these materials. Aluminum fumes or dust are 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.

RESPIRATORY PROTECTION – Not required. However, use NIOSH-approved filtering face piece respirator ("dust mask") and goggles where ventilation is limited. Use respiratory protection in accordance with regulatory requirements such as the OSHA respiratory protection standard 29 CFR 1910.134.
PROTECTIVE GLOVES – Not required. However, cloth, canvas, or leather gloves are recommended to minimize potential mechanical irritation or cuts from handling product.
EYE PROTECTION – Approved goggles or tight fitting safety glasses are recommended when exposures to dust may occur (e.g. during clean up) and when eye irritation may occur.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT – Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
WORK/HYGIENE PRACTICES – Follow good hygiene and housekeeping practices. Clean up areas where dust settles to avoid excessive accumulation. Minimize compressed air blow down or other practices that generate high airborne-dust concentrations.
Ventilation:
LOCAL EXHAUST – Provide local exhaust as needed so that exposure limits are met. Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation, and process enclosure if necessary, to control airborne dust. Ventilation to control dust should be considered where potential explosive concentrations and ignition sources are present. The design and operation of any exhaust system should consider the possibility of explosive concentrations of cellulose dust within the system. See "SPECIAL" section below.
MECHANICAL (GENERAL) – Provide general ventilation in processing and storage areas so that exposure limits are met.

SPECIAL – Ensure that exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or suppression systems designed and operated in accordance with applicable standards if the operating conditions justify their use.

Ingredient	**OSHA Exposure Limit**		**ACGIH**
	Total	Respirable	TLV
Polyvinyl Chloride	15mg/m^3	5mg/m^3	10mg/m^3

Titanium Dioxide	15mg/m^3	N/A	10mg/m^3
Calcium Carbonate	15mg/m^3	5mg/m^3	N/A

Section 9. Physical and Chemical Properties

Appearance:	Solid Plastic Sheet
Odor:	Odorless
Odor Threshold:	N/A
PH:	Not Determined
Melting Point:	>350 ^oF
Initial Boiling Point/Boiling Range:	N/A
Flash Point:	(ASTM) >700 ^oF
Evaporation Rate:	N/A
Flammability:	N/A
Upper/lower explosive limit:	NA
Vapor Pressure:	NA
Vapor Density:	N/A
Specific Gravity:	0.45 – 1.4 g/cm^3 range
Solubility:	Not soluble in water
Partition coefficient:	N/A
Auto-Ignition:	N/A
Decomposition Temperature:	>392 ^0F
Viscosity:	N/A

Section 10. Stability and Reactivity

Stability: Stable

Substances to Avoid: Alkali's, acids and solvents

Hazardous Decomposition: Hydrogen Chloride Gas, Benzene, Water, Carbon Dioxide, Metal Oxides and smoke.

Section 11. Toxicology Information

Effects of Overexposure:

Acute: Physical irritation of the eyes may result from overexposure to high concentrations of dust from certain fabricating operations.

Chronic: 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. Titanium dioxide Inhalation (rat) LC50: >2.28 mg/l/4hr[1], Oral (rat) LD50:>2000 mg/kg.

Section 12. Ecological Information

Material is not biodegradable.

Material is not bio accumulative

Material is recyclable

Section 13. Disposal Information

Dispose of waste materials in accordance with Federal, State and local regulations

Section 14. Transportation

DOT: Not regulated
IMDG: Not regulated

Section 15. Regulatory Information

PROPOSITION 65: (California Only)

Additional Requirements for the State of California: **"⚠ WARNING:** This product can expose you to chemicals including vinyl chloride, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov."

We realize that this warning sounds very alarming however; we want to reassure you based on the findings of reliable research. While there is research that supports health-related risks due to exposure to the listed chemical, this research also finds that the key factor in determining the health risk is the amount of exposure to the chemical vapors and not products made as a result of its use. These hazardous exposure limits are generally found in the workplace when chemicals in liquid form are being used, and are no longer in liquid forms in the products being shipped to our retailers and customers.

REACH: Pursuant to Title II article 7 of the regulation this product is exempt from registration and notification and is therefore compliant with the REACH regulation.

RoHS: Sintra® Eclipse products are compliant with the RoHS standard

TSCA: All ingredients of this product are either listed on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

CERCLA: This product does not contain ingredients which are subject to the reporting requirements of CERCLA.

SARA 313 Information: This product does not contain a chemical ingredient(s) with known CAS Number to exceed the *de minimis* reporting levels established by SARA Title III, section 313 and 40 CFR section 372 depending upon pulp inventory.

SARA 311/312 Hazard Category: This product has been reviewed according the EPA "Hazard Categories: promulgated under SARA Title III, Sections 311 and 312 and is considered, under applicable definitions, to meet the following categories:

An immediate acute) health hazard	Yes
A delayed (chronic) health hazard	No
A corrosive hazard	No
A fire hazard	No
A reactivity hazard	No
A sudden release hazard	No

Section 16. Other Information

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Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
CAS#	=	Chemical Abstracts System Number

CERCLA	=	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	=	U. S. Department of Transportation
DSL	=	Domestic Substance List
EPA	=	U.S. Environmental Protection Agency
IARC	=	International Agency for Research on Cancer
IATA	=	International Air Transport Association
IMDG	=	International Maritime Dangerous Goods
NA	=	Not Applicable
NIOSH	=	National Institute for Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
REACH	=	Registration, Evaluation, Authorization and Restriction of Chemicals
RoHS	=	Restriction of Hazardous Substances used in electronic equipment
STEL	=	Short-Term Exposure Limit (15 minutes)
TDG	=	Canadian Transportation of Dangerous Goods
TLV	=	Threshold Limit Value
TSCA	=	Toxic Substance Control Act

End of Safety Data Sheet