

Manufacturers Safety Data Sheet



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Proclad PVC Premium Grade Coloured Sheets (Aqua, Black, Blush, Clay, Crème, Dark Cherry, Duck Egg, Dusk, Grape, Grey, Lime, Linen, Mint, Ocean, Powder, Red Wine, Sage, Sandstone and Terracotta)

Safety Properties

Substance/preparation and Company detail

Product Name: Rigid Polyvinyl Chloride
Material Name: Polyvinyl Chloride Homopolymer
CAS Number: 9002-86-2
Material Synonyms: PVC
NFPA Ratings: Health=1, Fire=0, Reactivity=0

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Composition / Indications to components

Calcium-Zinc stabilized PVC sheets.
Pigments and additives used to enhance specific properties are encapsulated in the polymer resin matrix.
No solvents. No plasticizers. No cadmium, lead, or other heavy metals used.

Possible dangers

No particular hazards known.
Effects of a Single Overexposure
Swallowing: Non-relevant
Skin absorption: Non-relevant
Inhalation: Non-relevant
Skin contact: Exposure is not expected to cause adverse health effects
Eye contact: Non-relevant
Effects of a Repeated Overexposure: None currently known
Medical Conditions Aggravated by Overexposure: None currently known
Other Effects of Overexposure: None currently known

First-aid measures

In general handling the material will not cause accidents.

Inhalation: If exposed to combustion fumes in high concentration - Bring victim to fresh air. Seek medical attention.

Ingestion: Non-harmful. If irritation caused, seek medical advice.

Skin Contact: Burns resulting from accidental contact with molten material must be flushed immediately with cold water. Do not remove the polymer from the skin. Seek medical attention.

Skin Absorption: Non-harmful.

Eye Contact: Like any foreign object can cause irritation to the eye, Wash thoroughly with clean water and if symptoms persist, seek medical advice.

Fire-fighting measures

Extinguisher type: Water spray or CO2. CO2 is less recommended due to lack of cooling capacity.

Extinguisher To Avoid: No information currently available.

Special Fire Fighting Procedures: Personnel without suitable respiratory apparatus should leave the affected area to prevent exposure to toxic or combustible gases.

Special Protective Equipment for Fire fighters: Positive-pressure self-contained breathing apparatus, protective clothing, gas mask approved for acid vapours.

Unusual Fire and Explosion Hazards: PVC is a self extinguishing fire retardant material, which being exposed to open fire and high temperatures decomposes emitting large quantities of HCl, which tends to extinguish the flames. It does not continue to burn after ignition without an external fire source. HCl has a strong acidic odour that causes sensory alert at very low concentrations. HCl odour threshold = 0.77 ppm. Exposure to high concentrations of HCl will cause irritation of the respiratory passages, at very high concentrations may cause burns to mucous membranes. Soot emitted when PVC is forced to burn may obscure visibility.

Measures in case of unintended release

No special precautions and no personal protective equipment needed. Collect mechanically for disposal.

Handling and storage

Handling: General handling precautions, avoid contact with eyes.

Ventilation: General (mechanical) room ventilation is expected to be satisfactory where this product is stored and handled.

Other precautions: No explosion hazard. In the event of fire, cool and overlap product with water. Static electricity discharge sparks possible during handling. Avoid contact or vicinity of flammable materials.

Storage: Store in a cool shady area. No special technical protective measures required.

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Limitation of exposition

Respiratory protection: No special protection needed

Hand protection/protection gloves: No special protection needed

Eye protection: No special protection needed

Other protective equipment: No special protection needed

Physical and chemical characteristics

Appearance: Flat or corrugated plastic sheets

Physical State: Solid

Colour: Coloured

Odour: None

Density: 1.35-1.45 gr/cm³

Heat Deflection: 62-65°C

Boiling Point 760 Hg: Not relevant

Viscosity: Not relevant

Solubility in Water: <0.1g/100mL at 23oC

pH Value: Not relevant

Flash Point: 391°C ASTM D 1929

Auto-ignition Temp: 454oC ASTM D 1921

Flammability Limit: None

Explosion Limits: None

Evaporation Rate: Not relevant

Percent Volatiles: Not relevant

Stability and reactivity

Stability: Stable.

Conditions to avoid: Excessive heat, or open flame. Temperature above 150 °C will decompose raw polymer resin and liberate HCl.

Incompatible materials: Oxidizing agents or strong mineral acids can cause reaction.

Thermal decomposition: Begins above 150°C caused by fire, overheating during improper processing. Fumes damaging to health may be released.

Hazardous decomposition products

Burning can produce the following combustion products:

Carbon monoxide (CO) - is highly toxic if inhaled;

Carbon dioxide (CO₂) - in sufficient concentrations can act as an asphyxiant;

Hydrogen chloride (HCl) - in high concentrations cause irritation of the respiratory passages, at very high concentrations may cause burns to mucous membranes.

Reactivity

Hazardous polymerization : Will not occur

Hazardous reactions : None

Toxic information

PVC materials have a very low acute toxicity.

In rats an acute LD50 > 10 gr/kg of body weight. PNEUMOCONIOSIS has been described from inhalation of combustion products (effects of overexposure).

Industrial hygiene studies have shown that under normal and expected conditions of use of PVC materials, exposures are well below applicable limits.

Acute Toxicological Information

Acute oral toxicity: None

Acute percutaneous toxicity: None

Acute vapour exposure: None

Primary skin irritation: No irritation

Eye irritation: No irritation

Sensitization: No information available

Chronic effects: Unknown

Carcinogenicity: None

Other Toxicological Information

No known toxicological effects with normal use. For heating see section 10.

Additional Information

No additional toxicity information currently available.

Ecological information

Persistence and Degradability

Detailed studies have not been conducted concerning the environmental fate of the product. According to present knowledge no unfavourable ecological effects are to be expected.

Not generally hazardous to water. Insoluble in water, non-toxic solid.

Mobility: No information currently available

Persistence and biodegradability: Biodegradation period - tens of years.

Bio-accumulative potential: No information currently available.

Environmental Risks

No hazard expectation to terrestrial or aquatic flora and fauna.

Eco-toxicity : LD50 (rats) > 10 gr/kg

: IC50 (bacterial inhibition) - no data available

Aquatic toxicity : LC50 (daphnia magna) - no data available

: LC50 (fathead minnow – fish) - no data available

Other Information

All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this safety data.

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Waste-disposal information

The product is not considered hazardous under current EPA hazardous waste regulations.

Recycling is the preferred method of disposal.

Alternatively, the product may be disposed of in an approved landfill.

High temperature incineration under controlled conditions due to formation of HCl.

All wastes should be evaluated in conjunction with applicable solid and hazardous waste regulations, Toxicity Characteristic

Leaching Procedures (TCLP), and disposed of as appropriate.

This product does not contain any cadmium or other heavy metal pigments or stabilizers.

It is the user's responsibility to dispose of all wastes in accordance with all national and local regulations at properly permitted or authorized facilities.

Transport information

Additional transportation data: Not currently regulated under Department of Transportation regulations

Labelling: No labelling is required in accordance with the EEC directives

Placarding: No placarding is required in accordance with the EEC directives

Special transport requirements: None

Packaging: Avoid dark-coloured packaging to prevent heat distortion

The product is classified as a non-hazardous material in the meaning of transport regulations.

Regulations

With regards to dust formed as a consequence of mechanical treatments, the appropriate regulations value limits for fine dust must be observed: MAC value (fine dust) – 5mg/m³.

OSHA Hazard Communication Classification for dusts and combustion fumes: Irritant, Skin Hazard, and Lung Hazard.

SARA Title III Classification for dusts and combustion fumes: Acute Health Hazard; Chronic Health Hazard.

WHMIS Classification: Non-hazardous

Further information

The information is based on our current knowledge. They are meant to describe our products in respect to safety requirements. They do not represent any guarantee of the described product in the sense of the legal guarantee regulations..