



## Palight Foam PVC Sheet Safety Sheet

### 1. Identification

Trade Names:	PALIGHT, PALIGHT EPS, PALFOAM, PALTOP		
Product Name:	Foamed Rigid Polyvinyl Chloride Sheets		
CAS Number:	9002-86-2		
UN Number:	None.		
ACX Number:	X1007407-8		
RTECS:	KV0350000		
Material Synonyms:	PVC		
NFPA Ratings:	Health=1	Fire=0	Reactivity=0

### 2. Composition / Information on Ingredients

Tin stabilised PVC sheets, 2.5% by weight tin-mercaptide based stabiliser.

**Pigments and additives used to enhance specific properties are encapsulated in the polymer resin matrix. No solvents, no plasticisers, no cadmium, lead, or other heavy metals used.**

### 3. Hazard Identification

**No particular hazards known.**

#### 3.1. Health Hazard Data

##### 3.1.1. 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

##### 3.1.2. Effects of a Repeated Overexposure

None currently known.

##### 3.1.3. Medical Conditions Aggravated by Overexposure

None currently known.

##### 3.1.4. Other Effects of Overexposure

None currently known.



# Bay Plastics Safety Sheet

## 4. First Aid Measures

Inhalation:	If exposed to combustion fumes in high concentration – bring victim to fresh air. Medical attention needed.
Ingestion:	No known health risks.
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. Do not use solvent for removal. Medical attention needed.
Skin Absorption:	No known health risks.
Eye Contact:	Like any foreign body, can cause mechanical irritation. Consult physician.
Notes for Physician:	There are no specific notes.

## 5. Fire Fighting Measures

<b>Extinguishing Media:</b>	Water spray or foam CO <sub>2</sub> is less recommended due to lack of cooling capacity.
<b>Extinguishing Media to Avoid:</b>	No information currently available.
<b>Special Fire Fighting Procedures:</b>	Personnel without suitable respiratory apparatus should leave the affected area to prevent exposure to toxic or combustible gases.
<b>Special Equipment for Fire-fighters:</b>	Positive-pressure-self-contained breathing apparatus, protective clothing, gas mask approved for acid vapours.
<b>Unusual Fire &amp; Explosion Hazards:</b>	PVC is a self extinguishing fire retardant material, that 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. OSHA legal airborne PEL is 5 ppm, not to be exceeded at any time. ACGIH recommended airborne exposure limit is 5 ppm, which should not be exceeded at any time. Soot emitted when PVC is forced to burn may obscure visibility.

## 6. Accidental Release Measures

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



## 7. Handling & Storage

### 7.1. Handling

#### General Handling Precautions

Avoid mechanical 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. The material is not sensitive to static discharge. Static electricity discharge sparks possible during handling. Avoid contact or vicinity of flammable materials.

## 8. Exposure Controls / Personal Protection

### 8.1. Exposure Limits

No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

### 8.2. Personal Protection

Respiratory Protection:	No special protection needed.
Hand Protection:	No special protection needed.
Eye Protection:	No special protection needed.
Other Protective Equipment:	No special protection needed.

## 9. Physical Properties

Appearance:	Flat or corrugated opaque foamed plastic sheets
Physical State:	Solid
Colour:	Clear or coloured
Odour:	None
Density:	0.4 – 1.0 gr/cm <sup>3</sup>
Boiling Point:	None
Viscosity:	Not relevant
Solubility in Water:	<0.1g/100mL at 23°C
pH Value:	Not relevant
Flash Point:	>391°C ASTM D 1929
Auto Ignition Temp:	>454°C ASTM D 1921



## 10. Stability & Reactivity

### 10.1. Stability

#### Conditions to Avoid

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

#### Incompatible Materials

Oxidising 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.

Carbon Monoxide: Is highly toxic if inhaled, present in combustion fumes of all organic materials.

Carbon Dioxide: In sufficient concentrations can act as an asphyxiant.

Hydrogen Chloride: In high concentrations cause irritation of the respiratory passages.

### 10.2. Reactivity

Hazardous Polymerisation: Will not occur.

Hazardous Reactions: None.

## 11. Toxicological Information

PVC materials have a very low acute toxicity. In rats an acute LD >10gr/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.

### 11.1. Acute Toxicological Information

Acute Oral Toxicity: Oral LD (rat) > 5g/kg estimated.

Acute Vapour Exposure: None.

Primary Skin Irritation: No irritation.

Eye Irritation: No irritation.

Sensitisation: No information available.

Chronic Effects: Unknown.

## 12. Ecological Information

### 12.1. 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.

### 12.2. Environmental Risks

No hazard expectation to terrestrial or aquatic flora and fauna.



## 13. Disposal Considerations

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 stabilisers.

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

## 13. Transport Information

DOT PSN Code:	ZZZ
DOT Proper Shipping Name:	Not regulated by this mode of transportation.
IMO PSN Code:	ZZZ
DOT Proper Shipping Name:	Not regulated by this mode of transportation.
IATA PSN Code:	ZZZ
IATA Proper Shipping Name:	Not regulated by this mode of transportation.
AFI PSN Code:	ZZZ
AFI Proper Shipping Name:	Not regulated by this mode of transportation.
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.

## 14. Regulatory Information

With regards to dust formed as a consequence of mechanical treatments, the appropriate regulations value limits for fine dust must be observed.