

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

# U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072



|  |  |
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| <b>IDENTITY</b><br>PVC Heat Shrink and Sleeving Products | <i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i> |
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## Section I

|  |   |
|--|---|
| Manufacturer's Name<br>Insultab, Inc.  | Emergency Telephone Number<br>(781) 935-0800  |
| Address (Number, Street, City, State, and ZIP Code)<br>45 Industrial Parkway<br>Woburn, MA 01801 | Telephone Number for Information<br>(781) 935-0800<br>Date Prepared<br>03/01/2013<br>Signature of Preparer (optional) |

## Section II - Hazardous Ingredients/Identity Information

| Hazardous Components (Specific Chemical Identity; Common N | OSHA PEL  | ACGIH TLV   | Other Limits Recommended | % (optional) |
|--|-----------|---|--------------------------|--------------|
| Polyvinyl Chloride Polymer                                 | 35 - 80 % | PVC Resin   |                          |              |
| Plasticizers   | 10 - 60 % | High Molecular Weight esters                            |                          |              |
| Inert Fillers  | 0 - 40 %  | CaCO <sub>3</sub> , kaolin clay                         |                          |              |
| Heat Stabilizers   | 1 - 5 %   | organometallic compounds of barium and/or calcium zinc  |                          |              |
| Flame retardant  | 0-20 %    | antimony trioxide, aluminum trihydrate, phosphate ester |                          |              |
| Colorants  | 0-3%      | organic or inorganic compounds                          |                          |              |

PVC products are inert in normal usage. Listed above are typical components that are encapsulated within the PVC matrix when compounded. PVC compounds may contain the above components in the listed ranges.

## Section III - Physical/Chemical Characteristics

|                         |    |   |             |
|-------------------------|----|---|-------------|
| Boiling Point           | NA | Specific Gravity (H <sub>2</sub> O = 1) | 1.25 - 1.36 |
| Vapor Pressure (mm Hg)  | NA | Melting Point                           | varies      |
| Vapor Density (AIR = 1) | NA | Evaporation rate<br>(Butyl Acetate = 1) | NA          |

Solubility in Water

Insoluble.

Appearance and Odor

Tubing of varying sizes and colors.

## Section IV - Fire and Explosion Hazard Data

|                           |               |                  |     |     |
|---------------------------|---------------|------------------|-----|-----|
| Flash Point (Method Used) | >600 F (315C) | Flammable Limits | LEL | UEL |
|                           |               | NA               | NA  | NA  |

Extinguishing Media

Water, dry powder, foams, CO<sub>2</sub>

Special Firefighting Procedures

Wear self contained breathing apparatus.

Unusual Fire and Explosion Hazards

PVC evolves hydrogen chloride, carbon monoxide and other gasses when burned.

Exposure to combustion products may be fatal and should be avoided.

**Section V - Reactivity Data**

|           |          |   |                     |
|-----------|----------|---|---------------------|
| Stability | Unstable |   | Conditions to Avoid |
|           | Stable   | X |                     |

## Incompatibility (Materials to Avoid)

acetal or acetal copolymers, amine containing materials, strong acids and oxidizing agents

## Hazardous Decomposition or Byproducts

Overheating may cause thermal degradation and HCl, CO, CO2 and other substances

|                          |                |   |                            |
|--------------------------|----------------|---|----------------------------|
| Hazardous Polymerization | May Occur      |   | Conditions to Avoid<br>n/a |
|                          | Will Not Occur | X |                            |

**Section VI - Health Hazard Data**

Route(s) of Entry: Inhalation? Skin? Ingestion?

None likely to occur in normal exposure. If this material is used at elevated temperatures wear appropriate eye protection and gloves.

May be harmful if swallowed.

## Health Hazards (Acute and Chronic)

No product toxicology data available. Process vapors may produce eye, ear

and respiratory irritation.

|                  |            |                        |                       |
|------------------|------------|------------------------|-----------------------|
| Carcinogenicity: | NTP?<br>no | IARC Monographs?<br>2B | OSHA Regulated?<br>no |
|------------------|------------|------------------------|-----------------------|

## Signs and Symptoms of Exposure

None known.

## Medical Conditions

None known.

## Emergency and First Aid Procedure

If problems persists remove from affected area and get medical attention.

**Section VII - Precautions for Safe Handling and Use**

## Steps to be Taken in Case Material is Released or Spilled

Sweep, shovel or vacuum for disposal.

Contain product to prevent contamination of the soil, surface or ground water.

## Waste Disposal Method

Dispose of in accordance with State, local and federal laws. Do not dump into sewers on the ground or into any body of water. Waste characterization and compliance are the responsibility of the waste generator. In many cases PVC products are recyclable.

## Precautions to be Taken in Handling and Storage

Store in a cool dry area away from heat sources. Heat under well ventilated conditions.

Clean exhaust and ventilating equipment regularly. Use proper personal protective equipment during handling and cleanup.

## Other Precautions

NA

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**Section VIII - Control Measures**

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Respiratory Protection (Specify Type)

Not normally required if ventilation is adequate. Use NIOSH approved respirator if conditions warrant.

|             |                             |         |
|-------------|-----------------------------|---------|
| Ventilation | Local Exhaust               | Special |
|             | Heat only in areas with pro | NA      |
|             | Mechanical (General)        | Other   |
|             | none                        | NA      |

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Protective Gloves

Recommended for heated material. Wash skin if contacted.

Other Protective Clothing or Equipment

Safety glasses with side shields are recommended.

Work/Hygenic Practices

In accordance with good industrial hygiene and safety practices. Do not store or consume food in processing areas.

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**Section IX - Regulatory Information**

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The components of this product appear in the Toxic Substances Control Act (TSCA) Chemical Substances inventory and are available for commercial use.

**Section 313 Supplier Notification**

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This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40 CFR 372.

| CAS#      | Chemical Name     | Percent Weight |
|-----------|-------------------|----------------|
| N982      | Zinc Compounds    | <1%            |
| 1333-86-4 | Carbon black      | <3%            |
| 1317-65-3 | Calcium Carbonate | <1%            |

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This product has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.