



<b>P.V.Ran</b>	<b>MATERIAL SAFETY DATA SHEET - REACH</b> <b>Wrap Film: Cling, Stretch, Shrink, Rigid film</b>	<b>According to EC Regulation</b> <b>1907/2006 (REACH), ISO/DIS 11014</b> <b>Regulations 465/2008; 466/2008</b> <b>Page 1 of 1</b>
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### 01. MATERIAL IDENTIFICATION

#### Identification of the substance/preparation

Trade name of the substance/preparation	Wrap Film ; PVC compounds
Use of the substance/preparation:	Food packaging
Chemical Formula:	(C <sub>2</sub> H <sub>2</sub> Cl) n plus additives

#### Identification of the company/undertaking

Company name:	P.V.Ran
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### 02. COMPOSITION/INFORMATION ON INGREDIENTS

Component:	CAS No	Weight, %
Polyvinylchloride	9002-86-2	>50
Calcium-zinc stabilizer	Mixture	<3
Plasticizer	Mixture	>20
Proprietary additives	Mixture	<20

### 03. HAZARDS IDENTIFICATION

Product is not classified as dangerous in accordance with 67/548/EEC

<b>Emergency Overview</b>	This material is not a "health hazard" as defined under the OSHA Hazard Communication Standard, 29 CFR 1910.1200 or S.A.R.A. Title III, Section 313. This material is considered an article under OSHA and TSCA standards. Under normal use conditions, release would be below OSHA limits.
<b>Hazards</b>	Molten polymer may cause thermal burns. Irritating fumes may be produced at process temperatures
<b>Flashpoint</b>	400oC, but thermal degradation starts at 230oC
<b>Auto-ignition temperature</b>	Generally 330-410oC
<b>General hazard</b>	Solid material, may not burn at or above the flashpoint. Toxic gases will form upon combustion. Keep away from heat and sources if ignition
<b>Ingestion</b>	No effects are expected
<b>Inhalation</b>	Fumes produced during hot wire sealing are of low toxicity
<b>Possible wrong use</b>	Keep product away from the open fire and from high temperature At high temperature thermal decomposition giving harmful products, formation of toxic products through combustion.
<b>Potential chronic health effects</b>	Carcinogenic effects: classified NONE by NTP, NONE by OSHA.

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**04. FIRST AID MEASURES**

<b>General advice</b>	use protective clothing and gloves. No adverse effects under normal conditions
<b>Inhalation</b>	Inhalation of vapours by product working may cause nausea. Ensure a sufficient air exchange. Fumes produced during hot wire sealing are of low toxicity and are not harsh.
<b>Skin contact</b>	Prevent from frequently or long-time skin contact - protective clothing and gloves. After work wash hands with water and soap, use reparation cream. Cool skin rapidly with water after contact with hot film
<b>Eye contact</b>	Wash out the dust with water. No adverse effects under normal conditions. Cool eyes rapidly with water after contact with hot film
<b>Ingestion</b>	No first aid procedures are needed

**5. Fire-Fighting Measures**

<b>Flammability of the product</b>	May be combustible at high temperatures
<b>Auto-ignition</b>	Above 349°C
<b>Products of combustion</b>	Carbon oxide, soot, HCl above 400°C
<b>Suitable extinguishing media</b>	Water spray, dry chemicals and light foam, powder (A, B, C), CO <sub>2</sub>
<b>Protective clothing</b>	Wear MSHA/NIOSH approved self-containing breathing apparatus and full protective gear
<b>Specific hazards</b>	Fire may produce irritating gases and dense smoke
<b>Risks of explosion</b>	In presence of mechanical impact: Not expected. In presence of static discharge: Possible. From dust accumulation of this product is possible. See MSDS section 7

**6. Accidental Release Measures**

<b>Handling</b>	Standard handling. Ensure a sufficient air exchange. Eliminate all possible sources of ignition in a work area. Product is not dangerous for environment and water – No specific measures are required. Do not work with open fire in the near of the product.
<b>Storage</b>	Keep in closed packages, situated in roofed-over places. These places must protect product from direct solar radiation and from the other climatic influences. Observe the fire-fighting measures. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

**8. Exposure controls/Personal protection**

<b>Engineering Controls</b>	Ensure a sufficient air exchange in work areas. Use personal protective equipment
<b>Personal Protection in</b>	
<b>Eyes</b>	goggles /protection glasses or face shield
<b>Body</b>	Normally clean clothing should be sufficient
<b>Respiratory</b>	Ventilation is normally required when handling this product at high temperatures. Wear appropriate respirator when ventilation is inadequate
<b>Hands</b>	Thermally insulated gloves required when handling hot material
<b>Environmental exposure control</b>	Product is not dangerous for environment and for water

**9. Physical and Chemical Properties**

Physical state	Solid	Odor	Odorless
Molecular weight	Not applicable	Taste	Not available
Molecular formula	(-CH <sub>2</sub> -CH <sub>2</sub> -) <sub>x</sub>	Color	clear or various tints
Melting point, oC	115-145	Vapor density	Not available
Specific gravity, kg/m <sup>3</sup>	1210-1300	Evaporation rate	Not available
Solubility in water	Insoluble	VOC	Not available
Boiling point, oC	Not available	Viscosity	Not available
Vicat-softening, oC	>70	Flash point, oC	>400

**10. Stability and Reactivity**

Conditions for stability	Product is stable . Avoid temperature above 250oC
Incompatibility with various substances	Strong oxidizing agents as oxygen, chlorates, peroxides, nitrates. Some organic solvents, partially hydrocarbon fuels and oils, may degrade this product
Conditions to avoid	activity of the high temperatures or contact with open fire
Hazardous decomposition products	Thermal decomposition products above 400oC may include HCl, simple hydrocarbons as methane and propane, carbon oxides, aldehydes. Carbon monoxide is highly toxic if inhaled. Acute overexposure to the decomposition products may result in headache, nausea and irritation of the eyes.

**11. Toxicological information**

Product is not toxic. Dangerous-to-health effects

Inhalation	Long-time inhalation of vapours forming by product working may cause nausea
Ingestion	Ingestion of product parts may cause qualm
Skin contact	Long product contact with unprotected skin may cause skin irritation
Eye contact	Vapours forming by product working may cause eye irritation

**12. Ecological Information**

Ecotoxicity	Not available
BOD5 and COD	Not available
Biodegradable /OECD	Not available
Mobility	product is possible mechanically remove
Persistence and degradability	product is not degradable and is not volatile

**13. Disposal considerations**

Waste information	Transfer to an approved disposal area in accordance with state or local regulations
Waste stream	Not available
Consult your local or regional authorities	

**14. Transport Information**

DOT Classification for bulk Shipments (non-bulk shipments may differ)	Not a DOT controlled material (USA)
DOT proper shipping Name	Not applicable
UN Number	Not established
USCG proper shipping Name	Not available
Marine pollutant	Not applicable
Hazardous Substances reportable quantity	Not applicable
Special provisions for transport	Not applicable
TDG Classification	Not controlled under TDG (Canada)
ADR/RID Classification	Not controlled under ADR (Europe)
IMO/IMDG Classification	Not controlled under IMDG
ICA/IATA Classification	Not controlled under IATA

**15. Regulatory Information**

HCS Classification	This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard; 29 CFR 1910.1200; OSHA 29 CFR 1910.1017
US Federal Regulation	TSCA inventory. All the ingredients are on the TSCA list SARA 301/302/303
EU Directives	No chemicals in this product are listed on the Candidate List of Substances of Very High from 28/10/2008 (ECHA)
EINECS	Not available
DSCL (EEC)	Not controlled under DSCL (Europe)
Legal regulations applicable to substance	Regulation (EC) No 1907/2006-REACH

**16. Other information**

Label requirements	Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns
Other Special considerations	Acceptable business/technical terms necessary for food contact applications must be developed by contacting your PVRan sales representative

Validated by Sami Azulay on 07/12/2008

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