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PARACRIIL OZO	
HEALTH	1
FLAMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B



Safety Data Sheet (SDS)

Revision / Review Date: 7/15/15

1. Chemical Product and Company Identification

Product Name:	VINOPRENE 647
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
SDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Acrylonitrile-butadiene copolymer with polyvinyl chloride/ Nitrile polymer blend
Technical Name:	DOP-extended NBR/PVC blend
Molecular Formula:	Not available
Molecular Weight via GPC, Mn:	Not available
Product Use:	Synthetic Polymers
OSHA Status:	Hazardous
CAS No:	9003-18-3, 9002-86-2, 117-81-7
EC No:	206-625-7

For emergency health, safety, and environmental information, calls 330-920-8023

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

<u>Warning:</u>	Not available.
<u>Signs and Symptoms of Exposure:</u>	Not available.
<u>Primary Routes of Entry:</u>	Skin, eye, inhalation.
<u>Medical Conditions Generally Aggravated by Exposure:</u>	If irritation occurs/persists from any rate of exposure, remove affected individual from area. Call medical attention. Provide before allowing reentry.
<u>Emergency overview:</u>	A light yellow rubbery sheet, which is not normally irritating to eyes and skin. Ingestion and prolonged contact should be avoided. Some fumes may be released upon heating or cross linking and the end user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect his employee from exposure.

<u>Potential environmental effects:</u>	No significant environmental hazards are associated with this rubber release to the environment. This rubber is not soluble in water.
<u>Eye Contact:</u>	May cause irritation.
<u>Skin Contact:</u>	Contact with skin may cause irritation.
<u>Ingestion:</u>	Not applicable.
<u>Inhalation:</u>	Inhalation of fumes during hot processing can cause irritation to respiratory tract.
<u>Sensitization:</u>	No cases of sensitization in humans have been reported.
<u>Chronic:</u>	Not hazardous.
<u>NFPA Hazard Ratings:</u>	Health- 1, Flammability - 1, Reactivity - 0,
<u>HMIS Hazard Ratings:</u>	Health- 1, Flammability - 1, Reactivity - 0, Protection-B
<u>HMIS limitation statement:</u>	The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material.
<u>Principal Hazardous Components:</u>	ACGIH-TLV 5 (mg/m3). (Recommended for polymer dust)

3. Composition / Information on Ingredients

Weight Percent / Typical	Component Identity	CAS Registry Number
35-38	Acrylonitrile-butadiene rubber	9003-18-3
23-38	Polyvinyl chloride	9002-86-2
38-44	Di 2-ethylhexyl phthalate	117-81-7

4. First Aid Measures

<u>Inhalation:</u>	Remove affected individual to fresh air. Administer artificial respiration if not breathing; administer oxygen if breathing is difficult.
<u>Eyes:</u>	Flush eyes with water for 15 minutes. Call a physician if irritation develops.
<u>Skin:</u>	Remove contaminated clothing. Wash with soap and water. If contact with molten material occurs, flush with large quantities of cold water, submerge area in cold water if possible.
<u>Ingestion:</u>	Do not induce vomiting. Never give anything by mouth to unconscious person. Seek medical attention immediately.

Other hazards or effects health:

Processing temperatures may release fumes or vapors causing irritation to eyes, skin, and respiratory tract. Cough, tearing, irritation should be considered hazardous.

5. Fire-Fighting Measures

Suitable Extinguishing Media:

Chemical foam, CO₂, Dry Chemical, water fog, mist of water.

Special Fire Fighting Procedures:

Firefighters should wear Self-contained Breathing Apparatus. Gloves and safety glasses should be worn when handling. In the absence of adequate ventilation, use NIOSH certified respiratory protection. When handling molten material, use heat resistant gloves.

Hazardous Combustion Products:

This product will decompose under extreme temperatures forming oxides of carbon and nitrogen. It can also produce toxic/corrosive gases under decomposition conditions. Fire decomposition products such as CO, CO₂, NO_x, HCl and HCN under burning conditions.

Sensitivity to impact:

Stable.

Static charge effects:

Not determined.

Unusual fire and explosion hazards:

None hazardous.

Lower explosive (dust) Not determined	Upper explosive limit Not determined	Flash point Not determined
Flammability classification Not determined	Spontaneous Ignition (transport) Not determined	Minimum ignition temperature Not determined
Dust explosion class Not determined	Minimum ignition energy Not determined	Maximum absolute explosion pressure Not determined
Ignition energy Not determined	Burn velocity Not determined	Maximum rate of pressure rise Not determined

6. Accidental Release Measures

Steps to be taken in case material is spilled:

Wear appropriate protective clothing, gloves and equipment. Pick up spilled material. Transfer to secure containers and dispose of according to local and state regulations. Thought should always be given to collecting the material in such a manner that it could be recycled. Clean/scrub affected area with detergent. Prevent run-off into sewers or natural waterways. Handle as solid waste disposal, storage it in an approved land disposal site in accordance with applicable local, state or federal regulations.

<u>In Soil:</u>	Recover the spilled material and place in marked containers to facilitate its reuse or disposal. Dispose in a safe manner in accordance with local or national regulations.
<u>On Water:</u>	Stop the leakage and prevent the spilled material from spreading. If the material has flowed out in a stream or a sewer, inform the authorities of the possible presence of floating matter. Clean up the water surface by creaming. Refer to a specialist for water disposal in a safe manner in accordance with local or national regulations.
<u>Environmental Disposal Information:</u>	Do not let product enter waterways.
<u>Waste Disposal:</u>	All containers should be effectively labeled to facilitate the appropriate disposal or reclaim.

<u>7. Handling and Storage:</u>	
<u>Empty Containers:</u>	Not available.
<u>Precautions to be taken in handling:</u>	The material is been accustomed to product; its greater one risk is the one of fire that can be originated by contact with an ignition source direct. The combustion gases CO and CO2 they are toxic and they can cause poisoning to the exposed personnel.
<u>Storage:</u>	Store in sealed containers in dry, ambient temperature conditions. To maintain it remote of all heat source, not to expose it directly to natural or artificial light, it stores to smaller temperatures of 35°C and in dry atmospheres. The material has a life time of 24 months, at the end of which it can begin to present/ display degradation in some properties.

<u>8. Exposure Controls / Personal Protection</u>	
<u>Exposure Controls:</u>	
COUNTRY	
United States:	5 (mg/m ³). (Recommended for polymer dust).
ACGIH-TLV	
European community:	Not determined.
France:	Not determined.
United Kingdom:	Not determined.
Denmark:	Not determined.
Belgium:	Not determined.
<u>Respiratory Protection:</u>	In the absence of adequate ventilation, use of an air-purifying respirator with organic vapor cartridges is recommended for all hot processing.
<u>Ventilation:</u>	Use only where sufficient ventilation exists to keep exposure levels of fumes and dust below recommended levels

<u>Hand Protection:</u>	Use of natural rubber gloves. Neoprene or leather.
<u>Eye Protection:</u>	Use of goggles in the areas where steam are generated, avoids the contact of the dust with the eyes, it uses security lenses or goggles.
<u>Skin and Body Protection:</u>	Clothes of normal work (cotton, cotton 65%-polyester 35%).
<u>Engineering Controls:</u>	Local exhaust ventilation is strongly recommended for all hot processing operations.
<u>General Hygiene Considerations:</u>	Avoid skin contact by the use of personal protective equipment. Good personal hygiene, wash with soap and water. Use NIOSH certified respiratory protection.
<u>Other Precautions:</u>	Wash with soap and water before eating, drinking or using toilet facilities. Launder contaminated clothing before reuse.
<u>Decontamination Facilities:</u>	There should be a shower facility and eyewash in the building where this product is being stored and handled. Exercise good chemical handling practice.

9. Physical and Chemical Properties

<u>Physical Form:</u>	Solid slab/ Rubbery sheet
<u>Appearance & Odor:</u>	Light yellow / Characteristic hydrocarbon
<u>Specific Gravity:</u>	@25°C = 1.04 – 1.12
<u>Softening Point, R&B:</u>	Not available.
<u>Density:</u>	1.06-1.15
<u>Solubility in Water:</u>	Insoluble in water.
<u>Flash Point, TAG CC F:</u>	Not available.
<u>Percent Volatiles (by weight):</u>	Not available.
<u>Evaporation Rate (Water ~ 1):</u>	< 1 (butyl acetate=1)
<u>Vapor Pressure (mm Hg):</u>	Not available.
<u>Volatile Content:</u>	Trace moisture
<u>Vapor Density (Air ~ 1):</u>	Not available.
<u>Boiling Point (°F) Initial:</u>	Not available.
<u>Auto ignition Temperature, °C:</u>	Not available.
<u>Flammable Limits, %(V):</u>	Not available.

10. Stability and Reactivity

<u>Stability:</u>	This product is stable under normal conditions.
<u>Incompatibility (Materials to Avoid):</u>	Strong oxidizers and bases.
<u>Conditions to Avoid:</u>	Keep away from extreme heat. Not relevant, overheating. Keep away from heat sources. Do not expose to the natural or artificial light directly.
<u>Hazardous Polymerization:</u>	Hazardous polymerization will not occur.
<u>Hazardous decomposition:</u>	CO, CO ₂ , NO _x , HCl, HCN

11. Toxicological Information

This material is not listed as a carcinogen or potential carcinogen by NTP, IARC, or OSHA.

<u>OSHA Permissible Exposure Limit:</u>	Not available.
<u>ACGIH Threshold Limit Value:</u>	5 (mg/m ³). (Recommended for polymer dust).
<u>Acute oral:</u>	LD50 (rats) , > 30 g/kg.
<u>Acute eye:</u>	Not determined.
<u>Acute skin:</u>	LD50 (rats) , > 15 g/kg. (rabbits), Negative
<u>Sensitization:</u>	Skin (Guinea pigs), Negative.
<u>Bio-accumulation:</u>	Chemicals are not readily available as they are bound within the matrix of the polymer.
<u>Aquatic toxicity:</u>	Not determined.
<u>Behavior in water treatment plants:</u>	Suspended solids (flotation).
<u>Persistence/Degradability:</u>	Not determined.
<u>Mobility:</u>	Not determined.
21 CFR 177.1010 Semirigid and rigid acrylic and modified acrylic plastics.	Amount required to archive the desired effect.
21 CFR 177.2600 Rubber articles inteded for repeated use.	Amount required to archive the desired effect.
21 CFR 180.22 Acrylonitrile copolymers.	Not to contain greater than 300ppb Residual acrylonitrile.
21 CFR 181.32 Acrylonitrile copolymers and resins.	Prior sanction in films.

12. Ecological Information

This material has not been evaluated for environmental effects.

13. Disposal Considerations

Container/Packaging:

Where possible, recycling is preferred to disposal. Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Product:

Where possible, recycling is preferred to disposal. For disposal within the EC the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the EWL.

14. Transport Information

This material is not considered a transportation hazard under applicable ground, air or water regulations.

D.O.T. Shipping Name:

Not restricted. Label: Product trade name with chemical description.

Air - ICAO (international Civil Aviation Organization):

Not restricted. Label: Product trade name with chemical description.

Sea - IMDG (International Maritime Dangerous Goods):

Not regulated in non-bulk packaging.

CANADA TRANSPORT HAZ.GOODS:

Not restricted.

EUROPEAN TRANSPORTATION: ADR/RID HAZ. CLASS:

Not regulated.

US CUSTOMS:

HARMONIZED TARIFF CODE: 4002.59.00.00

UN Number:

None.

UN Proper shipping Name:

Not classified.

UN Shipping Class:

Not classified.

UN Packing Group:

Not classified.

International Transportation Identification:

Not classified.

U.S. Rail Regulations:

Not classified.

15. Regulatory Information

National Registries:

Acrylonitrile-butadiene rubber, CAS number 9003-18-3

Inventory status:	This product is listed in the chemical inventories of the following countries:	
Australia	AICS (Australian Inventory of Chemical Substances): Listed.	
Canada	DSL (Domestic Substances List): Listed.	
China	IECS (Inventory on Existing Chemical Substances): Listed.	
EU	EINECS (European Inventory of Existing Chemicals Substances): Not listed.	
Japan	ENCS (Existing and New Chemical Substances): Listed.	
Korea	KECI (Korean Existing Chemicals Inventory): Listed.	
Philippines	PICCS (Philippine Inventory of Chemicals and Chemical Substances): Listed.	
US	OSHA (Occupational Safety and Health Administration): Listed.	
	TSCA (Toxic Substances Control Act): Listed.	
Mexico	STPS (Secretaria de Trabajo y Previsión Social): Not Listed.	
<u>OSHA:</u>	DOP:	Hazardous chemical under 29 CFR 1200 (dioctyl phthalate, DEHP).
<u>SARA TITLE III 311/312 CATEGORIES:</u>	DOP:	Immediate health hazard/Delayed health hazard.
<u>SARA TITLE III 313 Reportable ingredients:</u>	DOP	reportable.
<u>CERCLA RQ:</u>	Not Determined.	
<u>RCRA Status:</u>	Not available.	
<u>TSCA REGULATORY:</u>	All intentional ingredients are listed in the TSCA Inventory.	
<u>CANADA WHMIS HAZARD SYMBOL AND CLASS:</u>	Not Regulated.	
<u>CANADA INGREDIENT DISCLOSURE LIST:</u>	Does not contain any ingredients on the IDL. All intentional ingredients are on the DSL.	

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.