TPC PASTE RESIN COMPANY LIMITED 1 Siam Cement Rd. Bangsue, Bangkok 10800, Thailand	**Revision:** 5 **Effective date:** Jan 13, 2015 **More information and/or complaint please contact :** **Tel : +66 2827 7211 or +66 3892 5200** **Fax : +66 2586 5488**

Safety Data Sheet (SDS)

1.Identification

Product Name : PG620(62GP), PG680(68GP), PG740(74GP), PG770(77GP), PS670(67SF), PC750(75HC), PS671, PS680, SW301WW, PM990OB
Chemical Name : Ethene, Chloro-Homopolymer
Synonyms : Polyvinyl chloride
Product Use : Industrial raw material for plastics processing
Manufacturer : TPC Paste Resin Co.,Ltd.
Address : 1 Siam Cement Rd. Bangsue, Bangkok 10800, Thailand
General Information : Tel: +66-3892-5200 Fax: +66-2586-5488
Emergency Telephone Number: +66-3892-5200

2.Composition/information on ingredients

Component	CAS number	% by Weight
Ethene, chloro-, homopolymer (PolyVinyl Chloride)	9002-86-2	100

3. Hazards Identification

HMIS® rating (product as packaged)
Health: 0 Fire: 1 Reactivity: 0
POTENTIAL HEALTH EFFECTS:
Inhalation: Inhalation of dust may cause irritating to the respiratory tract and breathless. Prolonged inhalation exceeding TLV can lead to damaging effect as a result of mechanical overloading of the respiratory tract.
Skin contact: Dust may cause irritating to the skin.
Eyes contact: Dust may cause irritating to the eyes.
Ingestion: Not a likely route of exposure.
This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

4.First aid measures

Inhalation: Remove to fresh air immediately. If cause irritant or unwell breathe should be use a bag valve mask or similar device to perform artificial respiration (rescue breathing). Get medical attention immediately.
Skin contact: Immediately flush skin with mild soap and large amounts of water.
Eye contact: Wash eyes immediately with large amount of water or normal saline solution, occasionally lifting eyelids. Get medical attention if irritation remains.
Ingestion: No effect expected. If large amounts are ingested, get medical attention immediately.

5.Fire Fighting measures

Extinguishing Media: Dry chemical, carbon dioxide, water, foam

Fire Fighting: Keep unauthorized personnel away, isolate hazard area and deny entry, firefighting with upwind. Wear self-contained breathing apparatus (SCBA) and full protective clothing.

Flash point: 736 deg. F or 391 deg. C (Method: ASTM D1929)

Auto-ignition temperature: 849 deg. F or 454 deg. C

Explosion Limit

Upper Explosion Limit: not available

Lower Explosion Limit: not available

Hazardous Combustion Products: Hydrogen chloride, Oxides of carbon

6.Accidental Release measures

Personal precautions: Evacuate unnecessary personnel and eliminate all sources of ignition.

Personal protection equipment: Wear personal protection equipment follow by section 8 (Exposure controls / personal protection)

Environmental precautions: Contain spills with dike to prevent entry into sewers or waterways.

Method and equipment for cleaning up: Sweep or vacuum cleaning Polyvinyl chloride that spills with minimum dust. Collect spills material in appropriate container and identify for disposal.

7.Handling and storage

Handling Procedure: Use only in adequate ventilation area. Using this material should be use method to minimize generation of dust emissions. Preventing accumulation of dust and eliminating potential ignition sources. Avoid breathing, contact to skin and eyes by wear personal protection equipment. Wash thorough after handling. At temperature more than 100 deg.C may cause thermal degradation of PVC in the formation of hydrogen chloride and oxides of carbon, So that using more than 100 deg.C should be use heat stabilizer.

Sensitivity to static electricity: Electrostatic charges may build up during processing equipment. Grounding is recommended.

Storage Condition: Store in a cool, dry area. Keep away from heat, sparks, flames and other ignition sources. Store in adequate ventilation area. Product arrangement, please study in PVC paste resin user manual.

8.Exposure controls / personal protection

Occupational Exposure Limits:

Component	CAS number	United States OSHA Final PEL 8 hour TWA	China OELs	ACGIH:TLV (8 hour TWA)
Ethene, chloro ,homopolymer (PolyVinyl Chloride)	9002-86-2	15 mg/m^3 (total dust) 5 mg/m^3 (respirable dust)	5 mg/m^3 (TWA) 10 mg/m^3 (STEL)	10 mg/m^3 (nuisance Dust) 1 mg/m^3 (respirable dust)

OEL: Occupational Exposure Level; TLV: Threshold Limit Values; TWA: Time Weighted Average; STEL: Short Term Exposure Level; PEL: Permissible Exposure Level; OSHA: United States Occupational Safety and Health Administration;

Engineering controls: General room ventilation plus local exhaust at points of emission to maintain levels of airborne contaminants below occupational exposure limits.

Personal protection equipment:

Respiratory protection: Wear respirator with high efficiency dust, mist and fume filters.

Eye protection: Wear safety glasses or goggles to protect eyes.

Skin and body protection: Wear suitable protective clothing to minimize skin contact.

Hand Protection: Wear appropriate chemical resistant gloves.

Other: Emergency shower and eyewash facility should be in workplace close proximity.

9.Physical and chemical properties

Physical state	: Fine powder, White solid
Change in appearance	: Changes color on exposure to heat or light
Odor	: Odorless
pH in demineral water	: 4-7
Melting point/freezing point	: No data available
Boiling point	: Not applicable
Flash point	: 736 deg.F or 391deg.C
Evaporation rate	: Not applicable
Flammability	: Not applicable (Product resists ignition and does not promote flame spread)
Explosive limits	: Not applicable
Vapor pressure	: Not applicable
Vapor density	: Not applicable
Specific gravity	**:** 1.4
Water Solubility	: Insoluble
Partition Coefficient (octanol/water):	No data available
Auto ignition temperature	: 849 deg.F or 454 deg.C
Decomposition temperature	: >100 deg.C
Viscosity	: Not applicable
Molecular Formula	: (C2H3Cl)n
Bulk Density	: 0.25-0.40 g/cm3

10.Stability and reactivity

Reactivity/Stability: Stable under normal temperatures and pressures.

Condition to avoid: Avoid heat, flame, sparks and other sources of ignition.

Incompatibilities/ Materials to Avoid: Oxidizing materials.

Hazardous decomposition products: Polyvinyl chloride in processing may result the release of very low levels of vinyl chloride, hydrogen chloride and oxides of carbon.

Hazardous Polymerization: Polyvinyl chloride is a stable polymer and will not further polymerize this material will not repolymerize to form vinyl chloride monomer.

11.Toxicological information

Animal Toxicity:

Rats and guinea pigs exposed continuously to PVC dust for 24 hours/day for periods varying from 2 – 7 months were found to have extensive lung damage. In rats, inhalation of fumes from heated PVC produced interstitial edema as well as focal bronchial and intra-alveolar hemorrhage. No data is available on the reproductive and mutagenicity effects.

Acute Toxicity:

PVC is practically non-toxic material by the oral route. This material is unlikely to cause chemical skin irritation but physical irritation may occur. Eye irritation may occur from the mechanical action of lodged PVC particles. Vinyl chloride is not likely to be present at levels that would produce an acute biological effect when used in adequate ventilation areas.

Chronic Toxicity:

The available evidence from experimental animals indicates that PVC is not metabolized effect in mammals. Vinyl chloride is not likely to be present at levels that would produce a chronic biological effect when used in adequate ventilation areas.

Carcinogenicity: This product is not classified as a carcinogen by NTP, IARC and OSHA.

12.Ecological information

Environmental Fate:

Aquatic: No data available

Biodegradation: PVC will not biodegrade.

Bioaccumulation: PVC will not bioaccumulation.

Additional Ecological Information: PVC is believed to be practically non-toxic to terrestrial organisms.

13.Disposal information

Waste Management Information: Do not dump into any sewers, on the ground, or into any body of water. Any disposal of all waste and contaminate equipment and packaging in accordance with all applicable country and local health and environmental regulations.

14.Transport information

UN number: No listed

Proper Shipping Name: Polyvinyl Chloride

Maritime Transport IMO/IMDG: Not regulated

Air Transport ICAO-TI and IATA-DGR: Not regulated

Land Transport ADR/RID: Not regulated

Inland Waterway Transportation AND/ADNR: Not regulated

15.Regulatory information

Label: This product not subject to classification according to Directive 67/548/EEC (Dangerous Substances Directive)

International Regulation Status:

U.S. REGULATIONS:

CERCLA SECTIONS 102a / 103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Vinyl chloride: 1 LBS RQ

SARA TITLE II SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40CFR 355.30): Not Regulated

SARA TITLE II SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40CFR 370.21):

Acute: no

Chronic: Yes

Fire: no

Reactive: no

Sudden release: no

SARA TITLE II SECTION 313 (40 CFR 372.65): Not Regulated

OSHA PROCESS SAFETY (29 CFR 1910.119): Not Regulated

OTHER U.S. REGULATIONS: 29 CFR 1910.1017 (VINYL CHLORIDE)

International Inventory Status:

Canada Chemical Inventory:

Component	DSL	NDSL
Ethene, chloro-,homopolymer (PolyVinyl Chloride)	Listed	Not Listed
Vinyl chloride	Listed	Not Listed

U.S. Chemical Inventory:

Component	TSCA
Ethene, chloro-,homopolymer (PolyVinyl Chloride)	Listed
Vinyl chloride	Listed

EU Chemical Inventory:

Component	EINECS	NLP	PBT
Ethene, chloro-,homopolymer (PolyVinyl Chloride)	Not Listed	Not Listed	Not Listed
Vinyl chloride	Listed	Not Listed	Not Listed

China Chemical Inventory:

Component	IECSC
Ethene, chloro-,homopolymer	Listed

(PolyVinyl Chloride)	
Vinyl chloride	Listed

Taiwan Chemical Inventory:

Component	NECI
Ethene, chloro-,homopolymer (PolyVinyl Chloride)	Listed
Vinyl chloride	Listed

Philippines Chemical Inventory:

Component	PICCS
Ethene, chloro-,homopolymer (PolyVinyl Chloride)	Listed
Vinyl chloride	Listed

Australia Chemical Inventory:

Component	AICS
Ethene, chloro-,homopolymer (PolyVinyl Chloride)	Listed
Vinyl chloride	Listed

New Zealand Chemical Inventory:

Component	NZIOC
Ethene, chloro-,homopolymer (PolyVinyl Chloride)	Listed
Vinyl chloride	Listed

STATE REGULATIONS:

California proposition 65: Known to the state of California to cause the following Vinyl chloride Cancer (Feb. 27, 1987)

16.Other information

Prepared by **:** Technical Service & Development 2 PVC
SCG Performance Chemicals Co., Ltd.

For additional data or **Product Complaint please contact**

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Abbreviation word:

CAS number : Chemical Abstracts Service Registry Number
IMO : International Maritime Organization
IMDG : International Maritime Dangerous Goods
ICAO-TI : International Civil Aviation Organization - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IATA-DGR : IATA's Dangerous Goods Regulations
ADR/RID : ADR= Agreement on Dangerous Goods by Road / RID = Regulations concerning The Transport of Dangerous Goods by Rail
AND/ADNR : Inland waterways transport of dangerous goods
DSL / NDSL : Domestic/Non-Domestic Substances List
TSCA : Toxic Substances Control Act
EINECS : European Inventory of Existing Commercial Chemical Substances
NLP : No-longer Polymers
PBT : Persistent Bioaccumulative and toxic
IECSC : China Existing Chemical Inventory
NECI : National Existing Chemical Inventory in Taiwan
PICCS : Philippine Inventory of Chemicals and Chemical Substances
AICS : Australian Inventory of Chemical Substances
NZIOC : New Zealand Inventory of Chemicals

IMPORTANT:

1. This products use for specific herein only.
2. The personnel knowledge and skill to the best on effective date. The information present herein trust and accurate.
3. No warranty of other further that beyond of information present herein. While not guaranty to the products, Is made regarding performance.
4. Customer must be check and testing for suitable of the products to application and satisfy. Safe handling and use of the product remains the responsibility of the customer and compliance with applicable any regulations and laws.

End of Safety Data Sheet