

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION OF THE COMPANY / UNDERTAKING

Product Name : **ESTOPPER PVC WATERSTOPS (Dumbell/CJ/EJ/Rearguard)**
Application : PVC Waterstop
Company : **Denka Construction Solutions Malaysia Sdn Bhd**
Address : No.18, Jalan Utas 15/7, Seksyen 15, 40200 Shah Alam, Selangor, Malaysia
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2. HAZARDS IDENTIFICATION

A. Hazard Risk Classification

- Health Hazard
Toxic to reproduction : Category 1B

B. Label elements including precaution statements.

- Symbol:



- Signal word: Warning
- Hazard Statement
H360 May damage fertility or the unborn child
- Precautionary Statement
(Prevention)
P102 Keep out of reach of children.
P103 Read label before use.
P201 Obtain special instruction before use
P202 Do not handle until all safety precautions have been read and understood
P280 Wear protective gloves/ protective clothing/eye protection/face protection.

(Response)

- P101 If medical advice is needed, have product container or label at hand.
P308 + P313 IF exposed or concerned: Get medical advice/attention
Collect/clean up spillage.

(Storage)

- P405 Store locked up.

(Disposal)

- P501 Dispose of contents / container to an approved waste disposal plant

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	%
Poly Vinyl Chloride (PVC)	9002-86-2	30 – 60
Plasticizer	117-81-7	10 – 30
Stabilizer	1304-28-5	1 – 5
Calcium Carbonate	1317-65-3	10 – 20

4. FIRST AID MEASURES

Eyes	Wash off with plenty of water with eyelids open for at least 15 minutes. Remove contact lens if worn. Get medical attention.
Skin	Pellets: Not applicable At elevated temperature: Wash off with plenty water and soap. Remove contaminated clothing. Get medical attention.
Inhalation	Pellets: Not applicable At elevated temperature: Remove to fresh air. If not breathing: Artificial respiration. If breathing is difficult: Oxygen. Immediately get medical attention.
Ingestion	Consult a doctor if irritation occurs/persist.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Carbon Dioxide, foam, dry chemical, water spray. In case of fire in close proximity, all means of extinguishing are acceptable. However, the presence of other material and/or equipment in the area should be considered in selection of an appropriate firefighting medium.
Specific methods	Use water to keep fire-exposed containers cool.
Special Fire Fighting Procedure	Firefighters and other exposed to product of combustion should wear full protective clothing including self-contained breathing apparatus.
Specific Hazard	PVC compounds are considered as an auto-extinguisher and incapable of propagating a flame. Avoid dust condition to reduce explosion potential. When exposed to sufficient heat from other burning materials, the compounds may thermally decomposed. It will generate hydrogen chloride gas, which is an irritant to the eyes and respiratory system. When combined with water, hydrogen chloride gas forms an acid that can have corrosive effects on metals and body tissue.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Refer to section 8
Environmental Precautions	Stop source of spill. Do not allow to enter sewerage system and other water bodies. If yes, notify responsible authority. Ingredients are unlikely to leach from pellets.
Decontamination Procedures	Material is inert. Sweep up spilled material and place in suitable container for reuse or disposal. Consult an expert on disposal of recovered material and ensure conformity to local state and federal regulations.

7. HANDLING AND STORAGE

Handling	Maintain proper grounding against static electricity to all installation system. Avoid ingestion and inhalation.
Storage	Do not store near flame. Store in cool and ventilated place, protected against humidity. Keep packaging closed.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits	No limits allocated
Biological limits	No limits allocated
Engineering measures	Provide general ventilation to control concentration of accumulation. Keep oil, grease and combustible materials away. Keep away from open flames. Avoid contact with strong oxidizers.
Personal Protective Equipment	
Respiratory Protection	Use approved mask if unable to control airborne dust, fumes and vapors. In case of decomposition, use gas mask with filter in case of release of HCl. Provide ventilation to control nuisance dust levels to worker exposure limits.
Hand Protection	Cold Pellets: Not necessary Hot Pellets: Gloves.
Eye Protection	Cold Pellets: Not necessary Hot Pellets: Safety goggles or safety glasses with side shields.
Skin & Body Protection	Wear suitable protective clothing.
Hygiene Measure	When using the material, do not eat, drink or smoke. Wash hand prior to breaks or at work's end.
Environmental Controls	Comply with applicable environmental regulation limiting discharge to air, water and soil. Protect environment by applying appropriate control measures to prevent or limit emissions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Colour	Black
Odour	Odourless
pH (concentrate)	Not applicable
Boiling Point / Range (°C)	Not applicable
Flash Point (closed °C)	None
Explosive Properties (%)	Not applicable
Oxidising properties	Not applicable
Water Solubility	Insoluble

10. STABILITY AND REACTIVITY

Stability	Stable at ambient temperature.
Conditions to avoid	Temperature over 200°C.
Materials to Avoid	POM
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, hydrochloric acids.
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Routes of entry	Eye contact; Inhalation; Skin contact; Ingestion.
Acute toxicity	Oral LD50 LD50 Oral (rat) >2000mg/kg Inhalation LC50 Not classified Dermal LD50 Not classified Other information Not classified
Skin irritation & corrosion	Causes skin irritation
Serious eye damage & irritation	Causes serious eye irritation
Respiratory sensitization	Not classified
Skin sensitization	May cause an allergic skin reaction
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Lactation effect Suspected of damaging fertility or the unborn child
Specific target organ toxicity	Not classified - Single exposure
Specific target organ toxicity	May cause damage to respiratory system - Repeated exposure
Aspiration hazard	Not classified

12. ECOLOGICAL INFORMATION

Details for elimination	Water insoluble product. Can be separated in waste water by filtration.
Performance in ecological sub-system	PVC is regarded as biologically inert.

13. DISPOSAL CONSIDERATIONS

Disposal method	Suitable routes of disposal are supervised incineration, or appropriate recycling methods in accordance with applicable local state and federal regulations.
Unused Product	Scrap material should be swept or scooped into a sealed, labeled container for recovery or disposal.

14. TRANSPORT INFORMATION

IATA-DGR	Not regulated for transport of dangerous good
IMDG-Code	Not regulated for transport of dangerous good
ADR/RID	Not regulated for transport of dangerous good

15. REGULATORY INFORMATION

Not Available

16. OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Denka Construction Solutions Malaysia Sdn Bhd.

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described to this sheet and of any precautions which should be taken. This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

SDS	Estopper PVC Waterstop (Dumbell/CJ/EJ/Rearguard)
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