



**Hall's**  
MANUFACTURING

PU 690

MATERIAL SAFETY DATA SHEET



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	<b>PU 690 Adhesive</b>
Recommended Use:	shoe Adhesive
Company:	HALL'S ADHESIVES & CHEMICALS
Address:	160 VICTORIA ROAD, PIETERMARITZBURG. KZN
Telephone Number:	033 3458376
Emergency Telephone:	033 3458376

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients:

Name of substance	Conc. % w/w	CAS-Nr
4,4 Diphenylmethane-diisocyanate	2-4 %	<b>9016-87-9</b>
Dibutyl phthalate	10 – 15 %	<b>84-74-2</b>

For full text of the R-phrases see Section 15 and 16

## 3. HAZARDOUS IDENTIFICATION

Hazardous Classification:  
 Type of danger:

Very Hazardous  
 Harmful by inhalation The product contains isocyanates The preparation may sensitize the skin and the respiratory tract.

Potential Chronic Health Effects:

Carcinogenic effects: Not available.  
 Mutagenic effects: Not available.  
 Teratogenic effects: Not available.  
 Developmental toxicity: Not available. The substance may be toxic to kidneys, the nervous system, liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

## 4. FIRST AID MEASURES

Inhalation:	Move from contaminated area. Apply artificial respiration if struggling to breathing. Seek medical assistance.
Ingestion:	In cases of ingestion, contact a Doctor or Poisons Information Centre. Do not induce vomiting.
Skin:	Skin contact, remove contaminated clothing and wash skin thoroughly. Wash clothing before reuse.
Eye:	Eye contact, hold eye open and flush the eye with water for at least 15 minutes. seek medical assistance
First Aid Facilities:	Provide eye baths and safety showers close to areas where splashing may occur.

## 5. FIRE FIGHTING MEASURES

**Substantial Extinguishing Media:**  
**Protective Equipment for Fire Fighters:**

alcohol resistant foam, CO2-powder, water-spray  
 Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water-spray.

Danger initiated by the product or its smoke after case of fire.

Fire will produce dense black smoke, containing hazardous products of combustion. Those products may be a hazard to health.

## 6. ACCIDENTAL RELEASE MEASURES

### Emergency Procedures:

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Absorb with inert material. Dispose according to municipal regulations.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling:

Wear chemical goggles or face shield. Wear protective clothing as necessary to avoid skin contact. Wear chemical resistant gloves. Respiratory protection should be used if there is a risk of exposure to high vapour concentrations. This product is harmful if it is inhaled. Respirators should comply SABS Standard. Wear chemical resistant gloves.

### Conditions for Safe Storage:

Demands for spaces of storage and vessels: Store in a dry, well ventilated place away from heat and direct sunlight at temperatures not exceeding above 35 °C to ensure optimum shelf life. Storage together with other products: store separately from oxidizing agents and strongly alkaline or acidic materials

### General conditions of storage:

Store only in containers of origin. Observe the label precautions. Storage Class: not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Technical safety measures:

No specific precautions required. It is sufficient to respect the general precautions to avoid hazards.

(No contact with mouth and skin whilst uncured)

Personal protection: (whilst uncured)

Respirator: not applicable

Hand protection:

Wear gloves, - advice should be sought from glove suppliers.

Barrier creams may help to protect exposed areas of the skin. (They are not substitutes for physical protection, don't apply them after exposure)

Eye protection: not applicable

Skin protection: Suitable working overalls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

Paste Brown

### Odour:

Slight hydrocarbon

### Boiling Point:

N/A

### Solubility in Water:

Not Miscible with water

### Specific Gravity:

1.20 g/ml DIN 51 757/C

### Volatile Component:

N/A

### Viscosity at 23 °C:

paste 40000-60000 cP Brookfield

### Flammability:

**FLAMMABLE.**

## 10. STABILITY AND REACTIVITY

### Chemical Stability:

Stable under normal use conditions

### Conditions to Avoid:

Never mix with other acids, chemicals or solvents.

### Incompatible Materials:

N/A

## 11. TOXICOLOGICAL INFORMATION

### Inhalation:

Avoid breathing vapour or spray mist. Vapour concentrations are irritating to nose and throat resulting in possible headaches, dizziness, and lack of coordination, nausea and possible loss of consciousness.

### Ingestion:

Harmful if ingested. Exposure to this product may result in nausea, dizziness and lack of consciousness. Vomiting may cause the product to be aspirated in the lungs possibly resulting in chemical pneumonitis.

### Skin:

Avoid contact with skin. Exposure may cause the product to be absorbed into the skin promoting the potential for over-exposure.

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**Eye:**

Avoid contact with eyes. Product may cause moderate to severe eye irritation and pronounced inflammation.

**Chronic Effects:**

Repeated or prolonged contact may cause irritant contact dermatitis.

## 12. ECOLOGICAL INFORMATION

**Eco toxicity:**

A low potential to affect aquatic organisms.

A low potential to affect secondary waste treatment microbial metabolism.

A low potential to affect the growth of some plant seedlings.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:**

Do not dispose of in drains/water courses or ground water.

Key of disposal:57110

Name of disposed product: Wastes of glues

Waste polymerized= polyurethane waste

Waste, including containers are controlled wastes and should be disposed of in accordance to the

Control of Pollution Act/Environment protecting Act

Un-cleaned packing: eventually dispose in the recycling

## 14. TRANSPORT INFORMATION

Transport by road or rail

ADR/RID-GGVS/GGVE: n.a.

Description of goods: non-hazardous goods

Transport by sea

IMDG/GGVSee : n.a. UN-No.: Page :

Marine pollutant:

Correct technical name: non-hazardous goods

Transport by air

ICAO/IATA: n.a. UN-No.: Page:

Correct technical name: non-hazardous goods

Packing group: III

## 15. REGULATORY INFORMATION

S 2

S

S 28

S 20/21

CONTAINS FREE ISOCYANATES WHEN UNCURED

NOTE THE REFERENCES OF THE SUPPLIER (see Sect. 11 of this sheet)

TA-AIR CL 1: 0.0% CL 2: 0.0% CL 3: 0.0

Keep out of reach of children.

24 Avoid contact with skin.

After contact with skin wash immediately with plenty of soap and water.

When using, do not eat, drink or smoke.

## 16. OTHER INFORMATION

R-Phrases with code out of Section 2 and further information:

R 20 Harmful by inhalation.

R 42 May cause sensitization by inhalation.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Other information: None

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References: None

Take precautionary measures against static discharges. In case of any discomfort always seek medical advice.



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