

## Material Safety Data Sheet

Name of Product:	Polyurethane
CODE	W-K400
use	Footwear soles
Application	Di-/polyisocyanate components for the production of polyurethanes
Supplier	Chemisan
Address	No.4, Bokhara Alley, North saadist, Tehran, Iran
Emergency Contact	021-36619546

### 01 Identification of the Substance/Preparation and Company

### 02 Hazards Identification

GHS : none catalog

### 03 Composition/Information on Ingredients

Monomer/Mixture : Mixture

Preparation base on diphenylmethane-4,4'-diisocyanate

Ingredient name	%	CAS number
Polyol	30-40	---
Diphenylmethane-4,4'-diisocyanate	50-70	101-68-8

### 04 First Aid Measures

#### General

In all cases of doubt, or when symptoms persist, seek medical attention, show the safety label and SDS to the doctor. Never give anything by mouth to an unconscious person. Inhalation

Remove patients to fresh air and get medical attention if symptoms occur.

#### Skin Contact

Take off the contaminated cloth. Wash material off the skin with large amounts of water and soap.

#### Eye Contact

Immediately rinse with large amounts of water and medical attention if symptoms occur.

#### Ingestion

Give one or two glasses of water and get medical attention. Never give anything by mouth to an unconscious person.

#### Note to physician

Symptomatic treatment and supportive therapy as indicated. show the safety label and SDS to the doctor. Getting treatment in time is important.

**دفتر مرکزی:** تهران، خیابان سعدی شمالی، کوچه بخارا، پلاک ۴ **کارخانه:** تهران، شهرک صنعتی پرند، بلوار صنعتگران، خیابان دانشگران  
**Office:** No.4, Bokhara Alley, North Saadi St., Tehran, Iran **Factory:** Daneshgaran Alley, Sanatgraran Blvd., Parand Industrial Town, Tehran, Iran

## 05 Fire-Fighting Measures

**Fire Fight Procedures:** Use an extinguishing agent suitable upwind to fire, avoid inhaling the smoke and to burn skin. Promptly remove the container to the clearing place, cool down the container. The fire-fighter should wear appropriate protective equipment and self-contained breathing apparatus(SCBA) with a full face-piece operated in positive pressure mode, safety goggles, and protective gloves.

### Suitable Extinguishing Media

Dry powder, carbon dioxide.

### Not suitable

None known

### Hazardous thermal decomposition products

None known

### Special exposure hazards

None known

### Special protective equipment for fire-fighter

The fire-fighter should wear appropriate protective equipment and self-contained breathing apparatus(SCBA) with a full face-piece operated in positive pressure mode.

## 06 Accidental Release Measures

Operator precautions and protective equipment:

Normal case , low vapor pressure , low inhalation risk, but avoid hot vapor and hot liquid to burn the skin . the operator should wear appropriate protective equipment, such as a gas mask, corrosion protective gloves, safety goggles etc.. Avoid eyes and skin touching the chemical. Avoid inhaling hot vapor. Wash the body under the strict procedures after operation.

Cleaning procedures:

Promptly isolate the scene by removing all persons from the vicinity of the incident. Cut off the source of heat. Cut off the source of the leak. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in a container for disposal. When a large amount of material is leaked, construct the dam or dig the pit to collect the leak, then transfer the material to a special container. Dispose of via licensed waste disposal contractor.

Measures to Protect the Environment:

Do not allow entry into drains or watercourses. If the product enters drains or sewers, the local water company should be contacted immediately, in the case of contamination of streams, rivers or lakes, the environment agency.

Prevent secondary risk:

The material is viscous liquid, to ensure a clean leak area, void slip. Ensure isolate the ignition source to avoid secondary accidents.

## 07 Handling and Storage

### Handling

Put on appropriate personal protective equipment. Handle, store , process the material in a dry, cool and well-ventilated area, and avoid direct sunlight. Prohibit throwing, striking, incorrect operating container.

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## Storage

Storage in the original container protected from direct sunlight in a dry, cool and well-ventilated area, isolates the ignition source. Keep the container tightly closed and sealed until ready for use. Prepare suitable fire extinguishers, equipment for disposing of accident releases and licensed waste disposal containers.

## Package materials

Carbon steel, stainless steel

## 08 Exposure Controls/Personal Protection

Explosive Limits In Air(% By Volume)

LEL: No date available

UEL: No date available Workplace Control:

Keep the workplace in a dry, cool and well-ventilated area. Equip shower unit, eye syringe under the clear mark.

Personal Protection:

Respiratory protection: Respiratory protection required in insufficiently ventilated working areas. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.

Hand protection: Suitable materials for safety gloves.

Eye protection: Wear eye/face protection. Body protection: Wear suitable protective clothing. Protection and hygienic measures: Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of work. Keep working clothes separate. Take off immediately all contaminated clothing. Decontaminate, destroy and dispose of soiled protective clothing.

## 09 Physical and Chemical Properties

Form: liquid

Color: Transparent and pure liquid

Odour: odourless

Pour point: 9.0-12.0°C

Boiling Point: >300°C

Flash Point: 220°C

Density: 1.18-1.20g/cm³

Viscosity: 300~500mPa.s at 40°C

Solubility in water: insoluble, reacts.

## 10 Stability and Reactivity

Stability: Stable

Hazardous reactions: Exothermic reaction with amines and alcohols; reacts with water forming

Hazardous decomposition products: No hazardous decomposition products when stored and handled correctly.

Forbidden Conditions: avoid strike material, avoid the sunlight directly or under the rain, the storage temperature should be under 30°C.

## 11 toxicological information

No toxicological studies of the product have yet been carried out.

Inhalation: none known

Ingestion: none known

Skin contact: none known

Eye contact: none known

## 12 Ecological Information

Do not allow it to escape into waters, wastewater or soil.

Ecotoxicological studies of the product are not available.

Solution in open waters:insoluble,reacts

## 13 Disposal Considerations

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

Do not allow entry into drains or watercourses. If the product enters drains or sewers, the local water. Burn out the dispose in the certified incinerator

After final product withdrawal, all residues must be removed from containers (drip-free, powder-free or paste-free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. Containers must be recycled in compliance with national legislation and environmental regulations.

## 14 Transport Information

Declaration for land shipment: --

Declaration for sea shipment: --

Declaration for shipment by air: --

Other information: --

Not dangerous cargo. Keep dry. Avoid temperatures below +25 °C. Avoid heat above +50 °C. Keep away from food-stuffs, acids and alkalis. Take personal protection and extinguishers when transporting. Ensure no leaking before loading the container

## 15 Regulatory Information

Not available

## 16 Other Informational

In the Material Safety Data Sheet. The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.