



## Safety Data Sheet

CAS No 25322-69-4  
Date Issued: 22-11-2018  
Ultradome® 70D135

### Company Details

<u>Name</u>	National Urethane Industries	<u>Emergency</u>	+27800172743
		<u>Tel</u>	
<u>Address</u>	18 Skietlood Street	<u>Tel</u>	011 974 9300
	Isando	<u>Fax</u>	(011) 392-5560
	Kempton Park		

### 1. Product and Company Identification

<u>Trade / Commercial</u>	<b>Ultradome® 70D135</b>
<u>Name</u>	
<u>Chemical Name</u>	Polyether polyol blend with additives
<u>Formula</u>	
<u>Chemical Family</u>	Polyurethane polyol component
<u>Synonyms</u>	Ultradome® polyol component - Use: Clear elastomer component for doming applications
<u>Un No</u>	<u>Hazchem Code</u>
<u>ERG No</u>	0 <u>EAC</u>

### 2. Hazards Identification

Classification according to Regulation (EC) 1272/2008 - SANS 10234: 2008 (GHS):

Acute toxicity (Oral) Category 4 (H302)  
Acute toxicity (Skin) Category 4 (H312)  
Acute toxicity (Inhalation - vapour) Category 4 (H332)  
Specific target organ toxicity, repeated exposure Category 2 (H373)  
Aquatic toxicity (Chronic) Category 3 (H412)

Label elements:  
SYMBOL: Health hazard



Signal word: WARNING

Hazard statements:

H302: Harmful if swallowed  
H312: Harmful in contact with skin.  
H332: Harmful if inhaled  
H373: May cause damage to organs through prolonged or repeated exposure.  
H412: Harmful to aquatic life with long lasting effects

Precautionary statements (Prevention):

P260: Do not breathe vapours

P264: Wash skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P271: Use only outdoors or in well ventilated areas

P280: Wear protective clothing

Precautionary statements (Response):

P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell

P330: Rinse mouth

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P314: Get medical attention if you feel unwell

P363: Wash contaminated clothing before re-use

Precautionary statements (Disposal):

P501: Dispose of contents/container in accordance with local regulations.

Classification according to SABS 0265:1999

Harmful Xn

Contains Organic Mercury compounds,  $\geq 0,05\% < 0,5\%$  Mercury

Contains Polypropylene Glycol  $> 25\%$

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R33: Danger of cumulative effects

Classification according to Directive 67/548/EEC

Harmful Xn

Contains Organic Mercury Compounds,  $\geq 0.25\% < 0.5\%$  Mercury

Contains Polypropylene Glycol  $> 25\%$

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R33: Danger of cumulative effects

R52/53: Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment

### **3. Composition**

Hazardous Components

Type of product: Mixture

Hazardous components:

Organic Mercury Compounds,  $\geq 0,25\% < 0,5\%$  Mercury

Index No: 080-004-00-7

Classification according to Directive 67/548/EEC:

Xn R20/21/22 - 33 - 52/53

Specific threshold concentrations:

Xn R20/21/22-33  $\geq 0.05\% < 0.25\%$

Xn R20/21/22-33-52/53  $\geq 0.25\% < 0.5\%$

T R23/24/25-33-52/53  $\geq 0.5\% < 1\%$

T+ R26/27/28-33-52/53  $\geq 1\% < 2.5\%$   
T+ R26/27/28-33-51/53  $\geq 2.5\% < 25\%$   
T+, N R26/27/28-33-50/53  $\geq 25\%$   
Polypropylene Glycol  $> 25\%$   
CAS Number: 25322-69-4  
Xn R22

#### **4. First Aid Measures**

<u>First Aid Skin</u>	Remove contaminated clothing immediately. Wash with plenty of water for at least 15 minutes. If irritation persists, seek medical advice.
<u>First Aid Eyes</u>	Flush eyes with water. Hold eyelids open while washing. Seek medical advice.
<u>First Aid Ingested</u>	Rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical advice. Do not give anything by mouth to an unconscious person.
<u>First Aid Inhalation</u>	Remove person to fresh air. If required, provide artificial respiration. Keep patient warm. Seek medical advice if symptoms persist.

#### **5. Fire Fighting Measures**

Suitable extinguishing media: Water spray jet, extinguishing powder, carbon dioxide, foam is recommended.

In case of fire, toxic incineration products such as carbon oxides and mercury compounds may be released.

Protection of fire fighters: Wear positive pressured self-contained breathing apparatus and protective fire fighting clothing.

Move container from fire area if you can do so without risk.

Dike fire control water for later disposal; do not scatter the material.

Keep unnecessary personnel away; isolate hazard area and deny entry.

Stay upwind; keep out of low areas and ventilate closed spaces before entering.

#### **6. Accidental Release Measures**

Evacuate unnecessary personnel.

Wear suitable protective clothing

Breathing apparatus for fire only.

Contain (avoid spillage from entering drains or water courses).

Restrict access to area.

Remove sources of heat and flame.

**SPILL OR LEAK:**

Do not touch spilled material.

Stop leak if you can do so without risk.

Cover and soak up with a suitable absorbent material and place into containers for later disposal.

## 7. Handling And Storage

### Handling:

Ensure good exhaust ventilation at the workplace.

Wash hands thoroughly after handling.

Keep away from foodstuffs.

### Storage:

Store in a cool, dry area.

Keep containers tightly closed, product is hygroscopic.

Store away from acids, oxidising agents

## 8. Exposure Controls/Personal Protection

Occupational Exposure Limits Mercury and compounds: TWA OEL-CL: 0,025 mg/m<sup>3</sup>  
Polypropylene Glycol: TWA Aerosol 10 mg/m<sup>3</sup>

### Controls

The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure.

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of substance release.

Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside.

Supply sufficient replacement air to make up for air removed.

Have a safety shower/eye wash fountain readily available in the immediate work area.

### Personal Protection

If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles, boots and impervious gloves..

RESPIRATORY PROTECTION: Respirator with with organic vapour cartridge, type AP2.

HAND PROTECTION: Nitrile rubber, NBR

EYE PROTECTION: Safety Goggles if processing.

SKIN PROTECTION: Protective overalls

Avoid contact with eyes and skin

Wash hands before breaks and at the end of shifts.

Check the condition of gloves after each use for damage like cuts and tears.

Have appropriate equipment available for use in emergencies.

## 9. Physical & Chemical Properties

Low viscosity liquid, water white to slightly yellow

Relative Density: 1,02 (±0,02) at 25 °C

Viscosity:  $\pm$  450 cps at 25°C  
Flash Point:  $\pm$  195°C (Open cup) (Not tested - Value for polyether polyol)  
Soluble in water  
pH: No data available  
Boiling point (760 mm Hg): 288 - 310°C (Not tested - Value for polyether polyol)  
Flammability: Not applicable  
Flammable limits in air: No data available  
Explosive properties: Not applicable  
Oxidising properties: No data available  
Vapour pressure: Negligible at ambient temperature  
Solubility: Soluble in water  
Partition coefficient, -n octanol/water: No data available  
Vapour density (Air = 1);  $>$  1 (Not tested - Value for polyether polyol)  
Evaporation rate; Not applicable

## **10. Stability And Reactivity**

<u>Conditions to Avoid</u>	Stable under normal conditions. Product can oxidise at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.
<u>Incompatible Materials</u>	Avoid contact with oxidising materials, strong acids, strong bases. Avoid unintended contact with isocyanates. The reaction of polyols and isocyanates generates heat.
<u>Other</u>	Product is hygroscopic, may absorb moisture. Keep containers tightly closed. Hazardous polymerisation will not occur. Decomposition products depend on temperature, air supply and the presence of other materials. Decomposition products can include but are not limited to: Carbon dioxide, alcohols, ethers, hydrocarbons, ketones, organic compounds containing mercury.

## **11. Toxicological Information**

### EFFECTS OF ACUTE EXPOSURE:

Toxicity data for Mercury compound:

Oral (rat) LD50: 50 - 300 mg/kg

Toxicity data for Polypropylene Glycol:

Estimated oral LD50 (rat): 1 000 - 2 000 mg/kg

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury.

Eyes: May cause slight eye irritation.

Inhalation: Non hazardous at room temperature.

Skin: Non irritating to skin

A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

#### EFFECTS OF CHRONIC EXPOSURE:

No information available on carcinogenicity, mutagenicity or reproductive toxicity.

Sensitisation: No sensitising effects known.

### 12. Ecological Information

The product contains materials that are harmful to the environment.

Do not allow to enter drains or surface waters

Mercury component: Not readily biodegradable

Danger of bio-accumulation

The polyether polyol is expected to be readily biodegradable.

No information available on aquatic toxicity of the preparation, only of the hazardous components.

### 13. Disposal Considerations

<u>Disposal Method Product</u>	There are no uniform EC regulations for the disposal of chemicals or residues. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. Observe prevailing regulations and incinerate.
<u>Disposal Method Packaging</u>	Disposal in accordance with local legal provisions. Empty containers can only be disposed of when the remaining waste products adhering to the container walls have been removed. Remove all labels. Packaging that cannot be cleaned is to be disposed of in the same manner as the product.

### 14. Transport Information

<u>ERG No</u>	0	<u>EAC</u>	
<u>IMDG-Shipping Name</u>	NOT CONTROLLED SUBSTANCE		
<u>IMDG Code</u>	N/A	<u>IMDG-Packaging Group</u>	N/A
<u>Marine Pollutant</u>	No		
<u>Class</u>	Not controlled		
<u>Subsidiary Risks</u>	None		

### 15. Regulatory Information

#### EEC Hazard Classification

<u>Risk Phases</u>	Harmful by inhalation, in contact with skin and if swallowed Danger of cumulative effects Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment
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### Safety Phases

Keep away from food, drink and animal feed  
After contact with skin, wash immediately with plenty of water and soap  
Wear suitable protective clothing  
In case of accident or if you feel unwell, seek medical advice immediately and show the label where possible  
This material and its container must be disposed of as hazardous waste  
Avoid release into the environment; refer to special instructions/material safety data sheet

### National Legislation

Republic of South Africa:  
National Road Traffic Act 1996 (Act 93 of 1996)  
Occupational Health and Safety Act 1993 (Act 85 of 1993)  
Hazardous Substances Act 1973 (Act 15 of 1973)  
European Community:  
Directive 1907/2006/EC

## **16. Other Information**

Reason for update: Classification according to Regulation (EC) 1272/2008 - SANS 10234: 2008 (GHS)

Risk phrases text:

R22: Harmful if swallowed

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed

R33: Danger of cumulative effects

R50/53: Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment

R51/53: Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment

R52/53: Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment

Revision date: 21/11/2018

Revision No.: 3

Sources: Suppliers Material Safety Data Sheets for hazardous components

SANS 10234: 2008

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properness of the product.

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All information is given in good faith but without guarantee in respect of accuracy & no responsibility is accepted for errors or omissions or the consequences thereof.