

# SAFETY DATA SHEET

## A. Identification of the Substance / Preparation and of the Company Undertaking

Product Name:	SpEC Surefoam		
Company:	Speciality Engineering Chemicals		
Address:	P.O Box No. 61347, Dubai, U.A.E		
Telephone:	+9714-8836662	Facsimile:	+9714-8837696
E-mail:	info@spec.ae	Web site:	www.spec.ws

## B. Composition / Information on Ingredients

Hazardous Ingredients	EINECS	CAS No.	
Propane 1-10%	200-827-9	74-98-6	[F+] R12
Butane 1-10%	203-448-7	106-97-8	[F+] R12
Dimethyl Ether 10-30%	204-065-8	115-10-6	[F+] R12
Diphenylmethane Diisocyanate (Isomers and Homologues) 30-50%	-	9016-87-9	[Xn] R20; [Xi] R36/37/38; [Sens] R42

## C. Hazards Identification

Main Hazards:	Extremely flammable. In use, may form flammable/explosive vapour-air mixture. Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.
Other Hazards:	Contains diphenylmethane-4, 4-diisocyanate. Harmful by inhalations, swallowing and skin contact. May cause sensitization by inhalation and skin contact. Irritating to eyes, respiratory system and skin. In the case of very sensitive persons low concentrations can cause asthmatic reactions. During use formation of explosive vapour-oxygen mixtures are possible especially on the ground.

## D. First Aid Measures

SYMPTOMS	
Skin:	There may be irritation and redness at the site of contact.
Eye:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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**ACTION**

Skin:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a Doctor if irritation persists.
Eye:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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**E. Fire Fighting Measures**

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Extinguishing Media:	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
Exposure Hazards:	In combustion emits toxic fumes.
Protection of fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Aerosol cans may explode in a fire (or if heated). Use water spray to cool cans close to any fire. CO and/or CO <sub>2</sub> may be produced during a fire. For large quantities, self-contained breathing apparatus and protective clothing.

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**F. Accidental Release Measures**

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Personal Precautions:	Refer to section H of SDS for personal protection details. If outside, do not approach from downwind. If outside, keep by standers upwind and away from danger point. Mark out the contaminated area with signs prevents access to unauthorized personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
Environmental Precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up Procedures:	Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

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**G. Handling and Storage**

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Handling Requirements:	Avoid direct contact with substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
Storage Conditions:	Store in cool, well ventilation area. Keep container tightly closed

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**H. Exposure Controls / Personal Protection**

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Hazardous Ingredients

Propane:	WEL (8 hr TWA) 1800mg/m <sup>3</sup>	WEL (15 min STEL) 7200 mg/m <sup>3</sup>
Butane:	WEL (8 hr TWA) 1450 mg/m <sup>3</sup>	WEL (15 min STEL) 1810 mg/m <sup>3</sup>
Dimethyl Ether:	WEL (8 hr TWA) 766 mg/m <sup>3</sup>	WEL (15 min STEL) 958 mg/m <sup>3</sup>
Diphenylmethane Diisocyanate (Isomers & Homologues):	WEL (8 hr TWA) 0.02 mg/m <sup>3</sup>	WEL (15 min STEL) 0.07 mg/m <sup>3</sup>

Engineering Measures:	Ensure there is sufficient ventilation of the area.
Respiratory Protection:	Self-contained breathing apparatus must be available in case of emergency. Use mask with A2B2P3 filter. Portable respiratory protection device. (EN 136-137-140-141-143-145-400-401-1061).
Hand Protection:	Protective gloves
Eye Protection:	Safety glasses. Ensure eye bath is to hand.
Skin Protection:	Protective clothing.

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## I. Physical and Chemical Properties

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State:	Aerosol
Colour:	Pale green
Odour:	Odourless
Solubility in Water:	Reacts with water
Autoflammability °C:	>300C
Vapour Pressure:	5.5 bar
Relative Density:	1.1

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## J. Stability and Reactivity

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Stability:	Stable under normal conditions.
Conditions to avoid:	Heat
Materials to avoid:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	In combustion emits toxic fumes.

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## K. Toxicological Information

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Hazardous Ingredients Diphenylmethane Diisocyanate (Isomers and Homologues):	ORL RAT LD50 46 gm/kg	SKN RBT LD50 >9400 mg/kg
Routes of Exposure:	Refer to section D of SDS for routes of exposure and corresponding symptoms.	

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## L. Ecological Information

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Mobility:	Vapour is heavier than air.
Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Other adverse effects:	No data available

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## M. Disposal Considerations

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NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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## N. Transport Information

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### ADR / RID

UN No.: 1950  
ADR Class: 2  
Classification Code: 5F  
Shipping Name: Aerosol (Propane; Diphenylmethane Diisocyanate (Isomers and Homologues))  
Labeling: 2.1

### IMDG / IMO

UN No.: 1950  
Class: 2  
EmS: F-D, S-U  
Marine Pollutant: -  
Labeling: 2.1

### IATA / ICAO

UN No.: 1950  
Class: 2  
Labeling: 2.1

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## O. Regulatory Information

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Hazard Symbols: Harmful. Extremely flammable

Risk Phrases: R12: Extremely flammable.  
R18: In use, may form flammable /explosive vapour-air mixture.  
R20: Harmful by inhalation  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R42: May cause sensitization by inhalation.

Safety Phrases: S38: In case of insufficient ventilation, wear suitable respiratory equipment.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S33: Take precautionary measures against static discharges. Pressurized container, protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use.  
S60: This material and its container must be disposed of as hazardous waste.

Precautionary Phrases: Contain isocyanates. See information supplied by the manufacturer. Pressurized container, protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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**P. Other Information**

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Risk Phrases used in s.b:           R12: Extremely flammable  
  R20: Harmful by inhalation.  
  R36/37/38: Irritating to eyes, respiratory system and skin.  
  R42: May cause sensitization by inhalation.

Legal Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

