

	<b>VITAL TECHNICAL SDN. BHD.</b>	  	<b>Issued Date:</b> 07/08/10
	<b>Material Safety Data Sheet</b>		<b>Revision No.:</b> 3
	<b>VT-268 PU Foam</b>		<b>Revised Date:</b> 14/03/13
			<b>Page:</b> 1 Of 5

## 1. Identification of the substance/preparation and of the company/undertaking

**Product name :** VT-268 PU Foam

**Company :** Vital Technical Sdn. Bhd.  
No. 93, Jalan Industri 3/3,  
Rawang Integrated Industrial Park,  
48000 Rawang, Selangor,  
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## 2. Hazard(s) identification

### GHS Classification

Health	Environmental	Physical
Eye Irrit. 2		Flam. Gas 1
STOT SE 3		
Skin Irrit. 2		

### GHS Label:



**Signal word:** Danger

### Hazard Statement(s):

**H319** Causes serious eye irritation.  
**H335** May cause respiratory irritation.  
**H315** Causes skin irritation.  
**H220** Extremely flammable gas.

### Precautionary Statement(s):

**P260** Do not breathe dust/fume/gas/mist/vapours/spray.  
**P305+351+338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
**P302+352** IF ON SKIN: Wash with soap and water.  
**P280** Wear protective gloves/ protective clothing/ eye protection/ face protection  
**P271** Use only outdoors or in a well-ventilated area

## 3. Composition/Information on ingredients

Chemical name	CAS No.	EINECS	% (w/w)	Toxicology Data
Diphenylmethane-4,4-diisocyanate	101-68-8	202-966-0	5 - 10	<b>LD<sub>50</sub> oral (rat):</b> No data <b>LD<sub>50</sub> dermal (rabbit):</b> No data <b>LC<sub>50</sub> inhalation:</b> No data
Butane; pure	106-97-8	203-448-7	2.5 - 10	<b>LD<sub>50</sub> oral (rat):</b> No data <b>LD<sub>50</sub> dermal (rabbit):</b> No data <b>LC<sub>50</sub> inhalation:</b> > 8000 ppm
Dimethyl ether	115-10-6	204-065-8	5 - 10	<b>LD<sub>50</sub> oral (rat):</b> No data <b>LD<sub>50</sub> dermal (rabbit):</b> No data <b>LC<sub>50</sub> inhalation:</b> 308.5 mg/L

	VITAL TECHNICAL SDN. BHD.	  	Issued Date: 07/08/10
	Material Safety Data Sheet		Revision No.: 3
	VT-268 PU Foam		Revised Date: 14/03/13
			Page: 2 Of 5

#### 4. First-aid measures

- **Inhalation:** Remove to fresh air, keep warm and at rest. Contact physician if discomfort persists.
  - **Skin contact:** Remove contaminated clothing. Rinse with copious amount of water. Contact physician if discomfort persists.
  - **Eye contact:** Contact lenses should be removed. Rinse with copious amount of water immediately, seek medical advice if necessary.
  - **Ingestion:** Seek medical advice immediately. DO NOT induce vomiting. Drink plenty of water followed by milk if available. Never give anything by mouth to an unconscious person.
- Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

#### 5. Fire-fighting measures

- **Suitable extinguishing media:** CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Special fire fighting procedures:** Keep up-wind to avoid fumes. Use self-contained breathing apparatus in confined areas.
- **Unusual fire/explosion hazards:** Unknown.
- **Hazardous combustion products:** Hydrogen fluoride (HF) and Hydrogen Chloride (HCL).
- **Protective measures in fire:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### 6. Accidental release measures

- **Personal precautions:** Ensure adequate ventilation. Keep away from ignition sources. Wear appropriate personal protective equipment.
- **Environmental precautions:** Prevent spreading of flammable vapours. Do not allow product to reach sewage system or any water course.
- **Methods for cleaning up:** Pick up mechanically. Collect spill in clearly labelled container for disposal as per statutory regulations. Wash down area where spill occurred. Do not empty into drains.

#### 7. Handling and storage

- **Handling precautions:** Ensure good ventilation during processing. Keep away from heat and direct sunlight.
- **Protection against fire/explosion:** Keep ignition sources away- Do not smoke. Protect from heat.
- **Storage conditions:** Observe official regulations on storing packaging with pressurized containers.
- **Cautions:** Protect from heat and direct sunlight. Best storage temperature: 18 - 22°C.

#### 8. Exposure controls/personal protection

- **Industrial hygiene:** Remove immediately all contaminated clothing. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke while using the product. Change clothing before leaving workplace.
- **Hand protection:** Suitable protective gloves like BUTYL RUBBER is recommended. **Respiratory protection:** An organic respirator NIOSH-approved for organic vapors is recommended where local ventilation is not adequate.
- **Eye protection:** Protective goggles/safety glasses.

	<b>VITAL TECHNICAL SDN. BHD.</b>	  	<b>Issued Date:</b> 07/08/10
	<b>Material Safety Data Sheet</b>		<b>Revision No.:</b> 3
	<b>VT-268 PU Foam</b>		<b>Revised Date:</b> 14/03/13
			<b>Page:</b> 3 Of 5

## 9. Physical and chemical properties

- **Form** : Aerosol
- **Color** : Light yellow
- **Odor** : Characteristic
- **Steam pressure@20°C** : 5.5-6 bar
- **Decomposition temperature** : > 100°C (Above 300°C, self-ignition is possible)
- **Solubility in water** : Insoluble
- **Specific gravity** : Approx. 0.9 - 1.1 g/mL

## 10. Stability and reactivity

- **Thermal decomposition/ conditions to be avoided**  
No decomposition if used and stored according to specifications.
- **Dangerous reactions:**  
Increasing inside pressure due to warming up. Danger of bursting by overheating.
- **Dangerous products of composition:**  
No dangerous decomposition products known (at combustion)

## 11. Toxicology information

- **Acute toxicity:** Not determined.
- **Primary irritant effects**
  - **On the skin:** Irritant for skin when pasting.
  - **On the eye:** Irritant effect: danger of pasting.
- **Sensitisation:** Sensitisation possible by inhalation.

**Remark:** Not applicable for the cured foam.

## 12. Ecological information

- **Persistence/Degradability :** The cured foam is not biodegradable
- **Ecology toxicity :** Not determined

Individual components of this mixture have been independently tested by the raw material suppliers and any known results have been presented above. The results for the individual components may not be representative of the ecological toxicity of this finished product. This finished product has not been tested to determine individual toxicological/ecological limits. Great caution should be taken to prevent release to the environment. See Section 13 for further information.

## 13. Disposal information

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even in small quantities, should never be poured down into drains, sewers or watercourses. Waste must be disposed of in accordance with federal, state and local environmental control regulations. This material, when properly mixed and cured at the proper mix ratio, may be safely landfilled.

	VITAL TECHNICAL SDN. BHD.	  	Issued Date: 07/08/10
	Material Safety Data Sheet		Revision No.: 3
	VT-268 PU Foam		Revised Date: 14/03/13
			Page: 4 Of 5

## 14. Transport information

### Road transport (ADR)

- ADR/RID class: 2 5F Gases.
- Danger code (Kemler): -
- UN-Number: 1950
- Packaging group: -
- Hazard label: 2.1
- Description of goods: 1950 AEROSOLS

### Marine transport (IMDG)

- IMDG Class: 2.1
- UN Number: 1950
- Label 2.1
- Packaging group: -
- EMS Number: F-D,S-U
- Marine pollutant: No
- Proper shipping name: AEROSOLS

### Air transport (IATA)

- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Label 2.1
- Packaging group: -
- Proper shipping name: AEROSOLS, flammable

## 15. Regulatory information

### EU Classification:

- **Classification and Labelling:** The product is classified and labelled for supply in accordance with the Classification of Hazardous Chemical.



Xn



F+

- **Hazard-determining components of labelling:**  
diphenylmethanediisocyanate, isomeres and homologues

### EU Risk(R) Phrases:

- R12** Extremely flammable.
- R20** Harmful by inhalation.
- R36/37/38** Irritating to eyes, respiratory system and skin.
- R42/43** May cause sensitisation by inhalation and skin contact.

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	<b>VT-268 PU Foam</b>		<b>Revised Date:</b> 14/03/13
			<b>Page:</b> 5 Of 5

#### EU Safety(S) Phrases:

<b>S23</b>	Do not breathe aerosol.
<b>S26</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>S28</b>	Avoid exposure – obtain special instruction before use.
<b>S35</b>	This material and its container must be disposed of in a safe way.
<b>S36/37/39</b>	Wear suitable protective clothing, gloves and eye/face protection.
<b>S45</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>S51</b>	Use only in well-ventilated areas.

## 16. Other information

#### Definitions:

- **EINECS** : European Inventory of Existing Commercial Chemical Substances.
- **TLV** : Threshold Limit Value.
- **LD<sub>50</sub>** : The minimum dose required for lethal effects in 50% of a given population of test specimens.
- **NIOSH** : National Institute for Occupational Safety and Health.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The details contained herein are based on our present state of knowledge and experience in characterizing our product with regard to any possible safety requirement. We do, however, pass them on without any warranty or property assurances.