

***SAFETY DATA SHEET***

***AEROFLEX AEROCEL***

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**1. PRODUCT AND COMPANY IDENTIFICATION**

|                           |   |  |
|---------------------------|---|--|
| Identification of Product | : | Closed Cell Elastomeric Thermal Insulation for insulating hot and cold piping system.                  |
| Trade Name                | : | AEROFLEX/AEROCEL   |
| Manufacturer/Supplier     | : | AEROFLEX CO., LTD<br>111/7, 111/11 Mu 2 Tambol Makhamku, Amphur<br>Nikomattana, Rayong Thailand. 21180 |
| Telephone Number          | : | 66-3891-7111-120   |
| Fax Number                | : | 66-3891-7121   |
| Email Address             | : | <a href="mailto:marketing@aeroflex.co.th">marketing@aeroflex.co.th</a>                                 |

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**2. Hazards Identification**

**Form & Order**

Closed Cell Elastomeric Thermal Insulation

**GHS Classification**

**Classification in Accordance with Regulation (EC) No 1272/2008 (CLP)**

|                    |   |                                      |
|--------------------|---|--------------------------------------|
| Physical Hazard    | : | None                                 |
| GHS Classification | : | Not a hazardous substance or mixture |
| GHS label elements | : | Not a hazardous substance or mixture |
| Other hazards      | : | None                                 |
| Signal word        | : | No Hazard Statement                  |

**GHS Precautionary Statements**

|            |   |                                |
|------------|---|--------------------------------|
| Response   | : | No special precaution required |
| Storage    | : | No special precaution required |
| Prevention | : | No special precaution required |

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#### Disposal:

P501: Dispose of contents and container to appropriate waste site or recycler in accordance with local and national regulations

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Description** : This product is an expanded, closed cell, cross-linked rubber type compound. It contains synthetic polymer, fillers, plasticizers and rubber chemicals. Following are the main ingredients in this product:

| No. | Substance Name  |                                       |           |                  | Additional Information |
|-----|---|---------------------------------------|-----------|------------------|------------------------|
|     | Cas No. / EC No. / REACH Registration No.                     | Hazardous Classification and category | Pictogram | Hazard statement | Concentration (%W/W)   |
| 1   | Synthetic rubber (EPDM: Ethylene-Propylene-Terpolymer Rubber) |                                       |           |                  |                        |
|     | 25038-36-2 / 923-949-0 / -                                    | Not classified                        | N/A       | N/A              | N/A                    |
| 2   | Aluminum Tri hydrate  |                                       |           |                  |                        |
|     | 21645-51-2 / 244-492-7 / -                                    | Not classified                        | N/A       | N/A              | N/A                    |
| 3   | Carbon Black  |                                       |           |                  |                        |
|     | 1333-86-4/ 215-609-9 / -                                      | Not classified                        | N/A       | N/A              | N/A                    |

### 4. FIRST AID MEASURES

#### Inhalation

Not required under normal use, any dust created when the material is cut would not be airborne. If irritation persists, remove from exposure area.

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**Eye contact**

Not required under normal use. Flash with water until all traces of this material are gone. Seek medical attention if irritation persists.

**Ingestion**

If illness or adverse symptoms develop, obtain medical attention.

**Skin Contact**

Not required under normal use.

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**5. FIRE FIGHTING MEASURES**

**Extinguishing Media**

Carbon dioxide, ABC dry chemical, water spray and foam.

**Specific Hazards with regard to Fire-Fighting measures**

Approach from upwind side. Avoid breathing smoke, fumes or vapors on downwind side. Firefighters wear protective clothing, especially eye protection, and self-contained breathing apparatus.

**Hazardous Combustion Products**

Material is stable under normal conditions. In the event of a prolonged fire, may generate Carbon Monoxide, Carbon Dioxide, Low molecular weight alcohol/aldehydes and acid.

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**6. ACCIDENTAL RELEASE MEASURES**

**In Event of Released /Spill**

**Land Spill:**

Collect spilled material and place it in an appropriate container for reuse or disposal.

**Water Spill:**

Product is insoluble. Collect spilled material and place it an appropriate container for reuse or disposal.

**Neutralizing Agent:**

N/A

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## **7. HANDING AND STORAGE**

|                      |                                 |
|----------------------|---------------------------------|
| Handling condition:  | No special precaution required. |
| Storage condition :  | Keep in a dry normal storage.   |
| Storage Temperature: | Ambient temperature.            |

## **8. EXPOSURE CONTROL/PERSONAL PROTECTION**

### **Control Parameters:**

|                                     |                     |
|-------------------------------------|---------------------|
| Occupational exposure limit values: | N/A                 |
| DNEL and PNEC values:               | N/A                 |
| Exposure Control Controls:          | General ventilation |
| Individual Protection:              | Negligible          |

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

|   |  |
|---|--|
| Appearance:   | Flexible tube or sheet. Foamed with closed cell structure. |
| Specific Gravity (H <sub>2</sub> O=1):              | 0.040-0.080  |
| Service Temperature (°C):                           | -57°C to +125°C (-70°F to +257°F)                          |
| Thermal Conductivity (W/m.K):                       | 0.040 at Mean temp 24°C max                                |
| Water Vapor Permeability:                           | 0.1 Perm-inch (0.15 x 10 <sup>-12</sup> kg/Pa s m) max     |
| Water Absorption (%by Weight):                      | 10 % by weight max   |
| Water Absorption (%by Volume):                      | 0.20 % by volume max                                       |
| Weather and UV resistance:                          | Very Good  |
| Heat Stability (104oC x 7 days):                    | 7 % max  |
| Flammability:                                       | Self-extinguishing   |
| Flexibility:  | Excellent  |
| Other information:                                  | N/A  |
| Information with regard to physical hazard classes: | N/A  |

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Other safety characteristics: N/A

## **10. STABILITY AND REACTIVITY**

**Chemical stability** : Stable under normal temperatures and pressure.

**Condition to Avoid** : None known.

**Decomposition Product** : May generate Carbon Monoxide, Carbon Dioxide, Low molecular weight alcohol/ aldehydes and acid

**Hazardous Polymerization** : Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

**Information on hazard classes as defined in Regulation (EC) No 1272/2008:** Non Hazardous substance

**Summaries of the information derived from the test conducted:** N/A

**Relevant toxicological properties:** N/A

**Information on likely routes of exposure:** N/A

**Symptoms related to the physical, chemical and toxicological characteristics:** N/A

**Delayed and immediate effects as well as chronic effects from short and long-term exposure:** N/A

**Interactive effects :** N/A

**Absence of specific data:** N/A

**Information on other hazards:** N/A

## **12. ECOLOGICAL INFORMATION**

**Toxicity:** This product may not toxic to aquatic life with long lasting effect

**Persistence and Degradability:** This product may not be released into the environment

**Bio accumulative potential:** N/A

**Mobility in soil:** N/A

**Results of PBT and vPvB assessment:** N/A

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Endocrine disrupting properties: N/A

### **13. DISPOSAL CONSIDERATION**

**Waste treatment methods:** Incineration or dispose of as hazardous waste in compliance with local

**Information regarding the disposal of the product:** Dispose of wastes in an approved waste disposal facility

**Information regarding the disposal of the packaging:** Dispose of wastes in an approved waste disposal facility

**Physical/chemical properties that may affect waste**

**treatment options shall be specified:** N/A

**Sewage disposal:** N/A

**Special precautions for any recommended waste treatment:** N/A

### **14. TRANSPORTATION INFORMATION**

**International Regulations**

**IATA-DGR** : Not regulated as a dangerous good

**IMDG-Code** : Not regulated as a dangerous good

**Domestic regulation** : Not regulated as a dangerous good

### **15. REGULATORY INFORMATION**

**International regulation** : EU Regulation (EC) No.1272/2008 on classification, labeling and packaging of Chemical substances and mixtures

**International Inventory Status EINCES:** May be commercialized according EC 2020/878 directive.

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**Thai regulation** : Hazardous substance (Praradbunyut 2535)

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**6. OTHER INFORMATION**

The information supplied herein is related to material specified and may not be valid if used in combination with other material or process. Further the information contained here is believed to reliable and based on correct state of our knowledge. However, no guarantees of any kind can be give as to its accuracy.

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