

SAFETY DATA SHEET
POLIMALL BLUE

Creation date : June 11, 2003

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1. IDENTIFICATION

PRODUCT NAME : POLIMALL BLUE

COMPANY IDENTIFICATION

Name of manufacture : KOYO-SHA CO., LTD.

Address : No. 1, AZA-SHIOZAWA, TAISHIN-NAKASHINJO, SHIRAKAWA-SHI,
FUKUSHIMA-KEN 969-0307 JAPAN

Name of section : QUALITY ASSURANCE SECTION OF TECHNICAL DEVELOPMENT DIVISION

Telephone number : 0248-46-2891

Reference No. : 1541BL

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS

| | |
|--|-----------------------------|
| Explosives : | Not applicable |
| Flammable gases : | Not applicable |
| Flammable aerosols : | Not applicable |
| Oxidizing gases : | Not applicable |
| Gases under pressure : | Not applicable |
| Flammable liquids : | Not applicable |
| Flammable solids : | Classification not possible |
| Self-reactive substances and mixtures : | Not applicable |
| Pyrophoric liquids : | Not applicable |
| Pyrophoric solids : | Not classified |
| Self-heating substances and mixtures : | Classification not possible |
| Substances and mixtures which, in contact with water, emit flammable gases : | Not classified |

HEALTH HAZARDS

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| Oxidizing liquids : | Not applicable |
| Oxidizing solids : | Classification not possible |
| Organic peroxides : | Classification not possible |
| Corrosive to metals : | Classification not possible |
| Acute toxicity - oral : | Classification not possible |
| Acute toxicity - skin : | Classification not possible |
| Acute toxicity - inhalation: gas : | Not applicable |
| Acute toxicity - inhalation: vapour : | Classification not possible |
| Acute toxicity - inhalation: dust : | Classification not possible |
| Acute toxicity - inhalation: mist : | Not applicable |
| Skin corrosion / irritation : | Category 3 |
| Serious eye damage / eye irritation : | Classification not possible |
| Respiratory sensitization : | Classification not possible |
| Skin sensitization : | Classification not possible |
| Germ cell mutagenicity : | Classification not possible |
| Carcinogenicity : | Classification not possible |
| Reproductive toxicity : | Classification not possible |
| Specific target organ systemic toxicity - Single exposure : | Category 3 - Respiratory tract irritation |
| Specific target organ systemic toxicity - Repeated exposure : | Category 1 - Inhalation ; Lung, Central nervous system |

| | | |
|-----------------------|--------------------------------------|-----------------------------|
| ENVIRONMENTAL HAZARDS | Aspiration hazard : | Classification not possible |
| | Hazardous to the aquatic environment | Classification not possible |
| | - acute : | |
| | Hazardous to the aquatic environment | Classification not possible |
| | - chronic : | |
| | Hazardous to the ozone layer | Classification not possible |

GHS LABEL ELEMENTS

PICTOGRAMS / SYMBOLS :



SIGNAL WORD :

DANGER

HAZARD STATEMENTS :

Causes mild skin irritation
 May cause respiratory irritation
 Cause damage to lung, central nervous system through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS

Prevention :

Do not eat, drink or smoke when using this product.
 Use only outdoors or in well-ventilated area.
 Do not breathe dust.
 Wear protective eyeglasses as needed.
 Wear respiratory protection / face protection / protective gloves / goggles and clothing.
 Wash hands thoroughly after handling.

Response :

If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 If you feel unwell, get medical attention.

Storage :

Store in a well-ventilated / cool place.

Disposal :

Dispose of contents / container in accordance with local / regional / national / international regulations.
 Dispose of cleaning solution after making harmless.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Substance / Mixture : | Mixture | |
|---|------------|-------------------|
| Chemical name | CAS No. | Concentration [%] |
| Base material (cotton) | No data | 50-70 |
| Aluminium oxide (Al ₂ O ₃) | 1344-28-1 | 20-35 |
| Polyoxyethylene sorbitol tetraoleate | 63089-86-1 | 1-3 |
| Triethanolamine | 102-71-6 | <1 |

Contain fatty acids and others.

4. FIRST-AID MEASURES

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|----------------|---|
| Inhalation : | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, get medical advice / attention. |
| Skin contact : | Remove / take off immediately all contaminated clothing. Rinse skin immediately with water / shower. Wash contaminated clothing before reuse. |
| Eye contact : | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention / advice |
| Ingestion : | Rinse mouth immediately with water. Call a doctor immediately. |

5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media : | In case of initial fires, use fire-extinguishing powder / foam, carbon dioxide or dry sand. |
| | In case of larger fires, effective to shut off air using fire-extinguishing foam and others. |
| Unsuitable extinguishing media : | Using water may be dangerous to spread fires. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures : | Evacuate nonessential personnel. Authorized personnel only. Wear proper protective equipment (gloves / goggles / clothing and high boots). |
| Environmental precautions : | Caution do not to discharge into rivers or seas. Do not wash away directly into rivers or sewer. |
| Method and materials for contaminant and cleaning up : | Collect spilled material into empty containers |

7. HANDLING AND STORAGE

HANDLING

| | |
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| Technical measure | According to " 8. EXPOSURE CONTROLS / PERSONAL PROTECTION ", put facility measures into operation and wear protective equipment. |
| Local-ventilation / Whole ventilation : | According to " 8. EXPOSURE CONTROLS / PERSONAL PROTECTION ", put facility measures into operation (Local-ventilation / Whole ventilation). |
| Note : | Use only outdoors or in well-ventilated area. Do not contact / breathe / swallow. Do not breathe powder dust. Wash hands thoroughly after handling. |

STORAGE

| | |
|---------------------------|---|
| Technical measure : | Install the equipment of lighting, ventilation and necessary daylighting to handle. |
| Incompatible substances : | Reference to " 10. STABILITY AND REACTIVITY ". |
| Storage conditions : | Keep away from high heat and store in a well ventilated / cool place. |
| Packaging materials : | Use a break-proof package. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-------------------------------|--|
| Facility measures : | Ventilate to avoid inhalation of dust. |
| Personal protective equipment | |
| Respiratory protection : | Wear appropriate respiratory protective equipment, dust-proof mask and others. |
| Hand protection : | Wear appropriate protective gloves, leather gloves and others. |
| Eye protection : | Wear protective glasses (ordinary glasses type / goggle type and others). |
| Skin and body protection : | Wear protective clothing and safety shoes. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---|--|
| Appearance : | Pale blue cloth impregnated with abrasive powder |
| Odor : | Slight odor |
| pH : | No data |
| Melting point / freezing point : | No data |
| Initial boiling point and boiling range : | No data |
| Flash point : | No data |
| Explosion limit : | No data |
| Vapour pressure : | No data |
| Vapour density : | No data |

| | |
|---|---------------------------------------|
| Relative density : | No data |
| Solubility : | Soluble in water only auxiliary agent |
| Partition coefficient : n-octanol / water : | No data |
| Auto-ignition temperature : | No data |
| Decomposition temperature : | No data |

10. STABILITY AND REACTIVITY

| | |
|--------------------------------------|---|
| Stability / Reactivity : | Stable under normal condition (room temperature). |
| Possibility of hazardous reactions : | Almost never |
| Condition to be avoided : | Fire, direct sunlight. |
| Incompatible materials : | Do not store together with acid / alkaline materials. |
| Hazardous decomposition products : | Nothing |

11. TOXICOLOGICAL INFORMATION

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| Acute toxicity : | Aluminium oxide | LD ₅₀ >5000 mg/kg (rat, oral) ¹⁾ |
| | Polyoxyethylene sorbitol tetraoleate | LD ₅₀ >2000 mg/kg (rat, oral) ²⁾ |
| | Triethanolamine | LD ₅₀ 4200-11300 mg/kg (rat, oral) ²⁾ |
| | | LD ₅₀ 4190 mg/kg (rabbit, skin) ²⁾ |
| | Fatty acids | LDL ₀ 4640 mg/kg (rat) |
| Skin corrosion / irritation : | Polyoxyethylene sorbitol tetraoleate is classified Category 2. ²⁾ | |
| | Triethanolamine is classified Category 2 to cause moderate human skin irritation. ²⁾ | |
| | Thus, this product is classified Category 3. | |
| Serious eye damage / eye irritation : | No data | |
| Respiratory sensitization : | No data | |
| Skin sensitization : | No data | |
| Germ cell mutagenicity : | No data | |
| Carcinogenicity : | No data | |
| Reproductive toxicity : | No data | |
| Specific target organ systemic toxicity - Single exposure : | Aluminium oxide is classified Category 3 (Respiratory tract irritation) based on enrollment "upper respiratory tract irritation". ³⁾ | |
| | This product is classified Category 3 to contain Aluminium oxide by 20% and over. | |
| Specific target organ systemic toxicity - Repeated exposure : | Occupational lung fibrosis caused by inhalation of Aluminium oxide. (Category 1) ⁴⁾ | |
| | Aluminium oxide is classified Category 1 (Inhalation ; Central nervous system) based on enrollment "Aluminium oxide have the potential to impact the central nervous system". ³⁾ | |
| | This product is classified Category 1 to contain Aluminium oxide by 10% and over. | |
| Aspiration hazard : | No data | |

12. ECOLOGICAL INFORMATION

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| Ecotoxicity : | No data |
| Persistence / Degradability : | No data |
| Bioaccumulation potential : | No data |
| Mobility in soil : | No data |
| Hazard to the ozone layer : | No data |

13. DISPOSAL CONSIDERATIONS

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| The remainder waste : | In case of the disposal, comply with local government codes and related regulations. |
| Contaminated container and packing : | Recycle containers after washing, or dispose according to local government codes and related regulations. |
| | In case of disposal of the container, remove the content. |

14. TRANSPORT INFORMATION

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| International regulations : | Not applicable with IMDG Code and IATA Dangerous Goods Regulations. |
| Safety measure and condition for transport : | Check the container for damage, corrode and leak before transport. Load the cargo without fall, drop and damage. Prevent the cargo from unpling for sure. Handle the shipping case with care and do not make an impact. Do not handle shipping case roughly, for example, collision, drag, etc. |

15. REGULATORY INFORMATION

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| Aluminium oxide : | Industrial Safety and Health Act; Notifiable hazardous substance, 189 Aluminium oxide (Paragraph 2, Article 57. Paragraph 2, Article 18 of the Order for Enforcement, The Appended Table 9) |
| Triethanolamine : | Industrial Safety and Health Act; Notifiable hazardous substance, 381 Triethanolamine (Paragraph 2, Article 57. Paragraph 2, Article 18 of the Order for Enforcement, The Appended Table 9) |
| Other regulations for foreign countries: | Regulations in "SDS" are Japanese ones. Regulatory information with regards to this preparation in your country or region should be examined by your own responsibility. |

16. OTHER INFORMATION

REFERENCES :

- 1) IUCLID (2000)
- 2) Safety data sheet (each raw material manufacturer)
- 3) ICSC (2000)
- 4) EHC (1997)

The information herein is given in good faith, but no warranty, express or implied, is made.

The information contained herein is, to the best of KOYO-SHA's knowledge and belief, accurate and reliable as of the date issued. Please make sure to be careful in handling it.

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions.

We reserve the right to revise SDS periodically as new information become available.