

SAFETY DATA SHEET
POLIMALL YELLOW

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1. IDENTIFICATION

PRODUCT NAME : POLIMALL YELLOW
 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. : 1541YL

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

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 : Classification not possible
 Serious eye damage/eye irritation : Classification not possible
 Respiratory sensitization : Classification not possible
 Skin sensitization : Category 1
 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 : Hazardous to the aquatic environment - acute : Hazardous to the aquatic environment - chronic : Hazardous to the ozone layer	Classification not possible Classification not possible Classification not possible Classification not possible
GHS LABEL ELEMENTS		
PICTOGRAMS/SYMBOLS :		
		
SIGNAL WORD :	DANGER	
HAZARD STATEMENTS :	May cause an allergic skin reaction May cause respiratory irritation Causes 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 and 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 [%]
Cotton cloth	No data	45-65
Aluminium oxide (Al ₂ O ₃)	1344-28-1	25-40
Rosin	8050-09-7	<1
Triethanolamine	102-71-6	<1

Contains fatty acids and others.

4. FIRST-AID MEASURES

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

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

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.
 Method and materials for contaminant and cleaning up : Collect spilled material into empty containers.

7. HANDLING AND STORAGE

HANDLING

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 place. Keep cool.
 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

Appearance : Pale yellow cloth
 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

Acute toxicity : Aluminium oxide LD₅₀ >5000 mg/kg (rat, oral) ¹⁾
 Rosin LD₅₀ 7800 mg/kg (rat, oral) ²⁾
 LD₅₀ >2500 mg/kg (rabbit, skin) ²⁾
 LD₅₀ 2.3 mg/L (inhalation: dust) ²⁾
 Triethanolamine LD₅₀ 4200-11300 mg/kg (rat, oral) ³⁾
 LD₅₀ 4190 mg/kg (rabbit, skin) ³⁾
 Fatty acids LDL₀ 4640 mg/kg (rat)

Skin corrosion/irritation : No data
 Serious eye damage/eye irritation : No data
 Respiratory sensitization : No data
 Skin sensitization : Rosin may cause an allergic skin reaction ⁴⁾⁵⁾. There is a report of positive results in a guinea pig maximization test. There are case reports of allergic contact dermatitis in humans attributed to the substance or products containing the substance. The substance was classified into R43 in EU classification, therefore, Rosin was classified into Category 1⁶⁾.
 This product was classified into Category 1.
 Triethanolamine is classified into Category 2 to cause moderate human skin irritation ³⁾.
 This product was classified into Category 1.

Germ cell mutagenicity : No data
 Carcinogenicity : No data
 Reproductive toxicity : No data
 Specific target organ systemic toxicity - Single exposure : Aluminium oxide is classified into Category 3 (Respiratory tract irritation) based on enrollment "upper respiratory tract irritation". ⁷⁾
 This product was classified into Category 3.
 Specific target organ systemic toxicity - Repeated exposure : Occupational lung fibrosis caused by inhalation of Aluminium oxide. (Category 1) ⁸⁾
 Aluminium oxide is classified into Category 1 (Inhalation ; Central nervous system) based on enrollment "Aluminium oxide have the potential to impact the central nervous system". ⁷⁾
 This product was classified into Category 1.
 Aspiration hazard : No data

12. ECOLOGICAL INFORMATION

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

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

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

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)
Rosin : Industrial Safety and Health Act;
Notifiable hazardous substance, 632 Rosin
(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) Akzo Coatings Inc. "Refind Gum Rosin" MATERIAL SAFETY DATA (1990)
- 3) Safety data sheet (each raw material manufacturer)
- 4) Journal of Occupational Health (Japanese Society for Occupational Health) Vol. 40
- 5) 1999 TLV and BEIs (ACGIH)
- 6) Japan Industrial Safety & Health association (JISHA), Japan Advanced Information center of Safety and Health
- 7) ICSC (2000)
- 8) EHC (1997)

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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.