SAFETY DATE SHEET

POLIMALL FOR PLATINUM

Creation date : October 15, 2006

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1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: POLIMALL FOR PLATINUM

COMPANY IDENTIFICATION

Name of distributor: ALFA MIRAGE CO LTD

Address: 3-2-19 Miyakojimahondori, Miyakojima
Osaka 534-0021 Japan

Telephone number: 06-6924-2631

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARD	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
	Substance and mixtures which, in Contact with water, emit flammable gases :	Not classified
	Oxidizing liquids :	Not applicable
	Oxidizing solids :	Classification not possible
	Organic peroxides :	Classification not possible
	Corrosive to metals :	Classification not possible
	Densensitized explosives	Classification not possible
HEALTH HAZARDS	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 :	Category 1
	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 system

	Aspiration hazard :	Classification not possible
ENVIRONMENTAL HAZARDS	Short-term (acute) hazardous to the aquatic environment :	Category 3
	Long-term (chronic) hazardous to the aquatic environment :	Category 3
	Hazardous to the ozone layer	Classification not possible

GHS LABEL ELEMENTS

PICTOGRAMS/SYMBOLS :

SIGNAL WORD : DANGER

HAZARD STATEMENTS :

May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause respiratory irritation
Causes damage to lung, central nervous system through prolonged or repeated exposure
Harmful to aquatic life
Harmful to aquatic life with long lasting effects

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	-
Aluminium oxide (Al_2O_3)	1344-28-1	15-35
Rosin	8050-09-7	1-3
Mineral oil	Non-disclosure	1-2
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 mouse 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, asphyxiating a fire using fire-fighting foam and others is effective.
Unsuitable extinguishing media :	In case of oil/grease/fat fires, do not use water as an extinguisher, as this will spread the fire.

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/face protection :	Wear protective glasses (ordinary glasses type/goggles type and others).
Skin and body protection :	Wear protective clothing and safety shoes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, physical state :	Solid
Color :	Pink
Odor :	Slight odor
Melting point/freezing point :	No data
Boiling point or initial boiling point and boiling range :	No data
Flammability :	No data

Lower and upper explosion limit/ flammability limit :	No data
Flash point :	No data
Auto-ignition temperature :	No data
Decomposition temperature :	No data
pH :	No data
Kinematic viscosity :	No data
Solubility :	Soluble in water only auxiliary agent
Partition coefficient *n*-octanol/water :	No data
Vapour pressure :	No data
Density/relative density :	No data
Relative vapour density :	No data
Particle characteristics :	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, oxidizing/reducing agent.
Hazardous decomposition products :	Nothing

11. TOXICOLOGICAL INFORMATION

Acute toxicity :

Aluminium oxide LD_{50} >5000 mg/kg (rat, oral) [1)]

Rosin LD_{50} 7800 mg/kg (rat, oral) [2)]
LD_{50} >2500 mg/kg (rabbit, skin) [2)]
LD_{50} 2.3 mg/L (rat, inhalation: dust) [2)]

Mineral oil LD_{50} >5000 mg/kg (estimated value) [1)]

Triethanolamine LD_{50} 4200-11300 mg/kg (rat, oral) [3)]
LD_{50} 4190 mg/kg (rabbit, skin) [3)]

Fatty acids LD_{LO} 4640 mg/kg (rat)

Skin corrosion/irritation : No data

Serious eye damage/eye irritation : No data

Respiratory sensitization : Rosin may cause allergy or asthma symptoms or breathing difficulties if inhales [4) 5)]. There are a number of case reports of asthma or asthma-like symptoms in workers handling pine resin, solder flux and resin acid which contained this substance. Cases of workers complained of respiratory symptoms, decrease in expiratory flow, bronchitis, persistent symptoms and severe attacks of asthma related to their work are also reported, and the incidence and severity of the symptoms are suggested to be related to exposure level. In addition to these evidences, the substance is classified into Category 1 for respiratory tract sensitizer in Japan Society For Occupational Health (JSOH) (Recommendations for allowable concentrations (2008)) [6)].
This product was classified into Category 1.

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 1 [6)].
Triethanolamine is classified as Category 1 to cause allergic dermatitis by contact [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 :	Aluminium oxide was classified into Category 1 according the statement that by occupational exposure of aluminas, pulmonary fibrosis was occurred (Category 1) [8]. Aluminium oxide is classified as 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 :	Rosin is classified into Category 2 of hazardous to the aquatic environment - acute based on the description "Crustaceans (*Daphnia magna*) EC_{50} =4.5 mg/L/48hr" and to be toxic for aquatic organisms [6]. This product was classified as Category 3 for acute aquatic environmental hazards. Other ingredients are unknown hazards to the aquatic environment.
Persistence / Degradability :	Rosin is classified into Category 2 of acute toxicity, and Category 2 of hazardous to the aquatic environment - chronic to be non-acute degradable (The degree of resolution by BOD: 36-48%) and based on the description "It is unknown bioaccumulation potential" [6]. This product was classified as Category 3 for chronic aquatic environmental hazards. Other ingredients are unknown hazards to the aquatic environment.
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	
IMDG Code :	Not restricted
IATA Dangerous Goods Regulations :	Not restricted
Domestic regulations :	
Fire Service Act Dangerous Goods :	Not restricted
Fire Service Act Designated Combustibles :	Not restricted
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 unpiling 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 Resin (Paragraph 2, Article 57. Paragraph 2, Article 18 of the Order for Enforcement, The Appended Table 9)
Mineral Oil :	Industrial Safety and Health Act ; Notifiable hazardous substance, 168 Mineral oil (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. “Refined 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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