

DATE: MAY 1, 2002

MATERIAL SAFETY DATA SHEET (MSDS)

1. CHEMICAL PRODUCT

• **PRODUCT NAME** : Sunshine Cloth

2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE : MIXTURE (ULTRA-MICRO ABRASIVE PARTICLES AND LUSTERING AGENT IMPREGATED INTO THE CLOTH)

• **PRODUCT NAME** : Sunshine Cloth
• **SYNONYM(S)** : POLIMALL YELLOW

COMPONENTS	RATIO	M A T E R I A L S
BASE CLOTH	40 %	FLANNEL (COTTON:100%).
ABRASIVES	45 %	ALUMINUM OXIDE(AVERAGE SIZE: 0.8 μ m).
AUXILIARY AGENT	15 %	FATTY ACID(16.0%), WAX(16.0%), WATER(59.3%) AND EMULSIFYING AGENT(8.7%)
T O T A L	100 %	

3. HAZARDS IDENTIFICATION

CLASS NAME OF HAZARDOUS CHEMICALS FOR MSDS IN JAPAN

NOT APPLICABLE

• **PHYSICAL AND CHEMICAL HAZARDS** : NOT APPLICABLE
• **ADVERSE HUMAN HEALTH EFFECTS** : IN NORMAL CONDITIONS, IT IS NOT DESIGNATED AS HAZARDOUS AND TOXIC MATERIAL ACCORDING TO THE DOMESTIC LAW CONCERNING OXIDATION AND ACUTE TOXICITY(WHEN NOT IN USE).
• **ENVIRONMENTAL EFFECTS** : NO INFORMATION IS AVAILABLE.

4. FIRST-AID MEASURES

• **EYE CONTACT** : IMMEDIATELY WASH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, AND IF IRRITATION PERSISTS, SEEK MEDICAL ASSISTANCE.
• **SKIN CONTACT** : IN NORMAL CONDITIONS, NOT APPLICABLE.
• **INHALATION** : NO EFFECTIVE INFORMATION ABOUT TOXIC INHALATION.
• **INGESTION** : NORMALLY THIS MATERIAL IS NO-INGESTABLE.

5. FIRE FIGHTING MEASURES

• **FIRE FIGHTING PROCEDURES** : USE EXTINGUISHING MEDIA AND FIRE FIGHTING SHOULD BE DONE FROM THE WINDWARD. BE SURE TO WEAR PROTECTIVE CLOTHING.
• **EXTINGUISHING MEDIA** : DRY CHEMICAL POWDER, CO₂, FOAM.

6. ACCIDENTAL RELEASE MEASURES
NOT APPLICABLE

7. HANDLING & STORAGE

- **HANDLING.** : USE ONLY IN THE WELL-VENTILATED AREAS, AND DO NOT BREATHE DUST. THE EMPLOYERS ARE OBLIGED TO TAKE NECESSARY PROCEDURES IN ORDER TO AVOID GENERATING FINE DUSTICLES (CHAPTER 22 OF "INDUSTRIAL SAFETY AND HEALTH LAW").
PRACTICE GOOD PERSONAL HYGIENE AFTER USING THIS MATERIAL, ESPECIALLY BEFORE EATING, DRINKING, SMOKING OR USING THE TOILET. TO USE THIN RUBBER GLOVES, ESPECIALLY FOR EASILY CHAPING SKIN IS PREFERRED.
THIS MATERIAL DECLINE IN PERFORMANCE TO POLISH WHEN WASHED AND DIPPED IN WATER, SINCE ITS ABRASIVES WILL BE REMOVED.
- **STORAGE** : KEEP AWAY FROM SUNLIGHT, AND DO NOT STORE IN A HIGH TEMPERATURE AND DRY.
AVOID TO TRASHES AND DUSTS IN STORAGE.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- **CONTROL PARAMETERS** : CONTROL ACCORDING TO "INDUSTRIAL SAFETY AND HEALTH LAW" AND ITS "RULES IN HANDLING FINE PARTICLES" (OPERATION OF POLISHING).
ACGIH TLV : NOT AVAILABLE
- **ENGINEERING MEASURES** : DEPENDING ON THE SITUATION, USE WITH LOCAL EXHAUST VENTILATION/DUST CATCHER TO PREVENT DIFFUSION OF FINE PARTICLES(OPERATION OF POLISHING).
- **PERSONAL PROTECTIVE EQUIPMENT** : RESPIRATORY PROTECTION - USE AN APPROVED DUST RESPIRATOR AS RESPIRATORY PROTECTION, AS APPROPRIATE.
EYE PROTECTION - WEAR PROTECTIVE GOGGLES, AS APPROPRIATE.
HAND, SKIN AND BODY PROTECTION - USE RUBBER GLOVES AND PROTECTIVE CLOTHING, AS APPROPRIATE.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **APPEARLANCE** : LIGHT YELLOW CLOTH FOR POLISHNIG(ULTRA-MICRO ABRASIVE PARTICLES AND LUSTERING AGENT IMPREGATED INTO THE CLOTH)
- **BOILING POINT** : NOT AVAILABLE
- **MELTING POINT** : NOT AVAILABLE
- **SOLUBILITY IN WATER** : SOLUBLE, AUXILIARY AGENT ONLY.
- **VOLATILITY** : NOT APPLICABLE
- **DENSITY** : NOT AVAILABLE
- **OTHERS** : NOT AVAILABLE

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10. PHYSICAL HAZARD (STABILITY AND REACTIVITY)

- FLASH POINT : NOT AVAILABLE
- AUTOIGNITION TEMPERATURE : NOT AVAILABLE
- EXPLOSION LIMIT (UPPER & LOWER) : NOT AVAILABLE
- FLAMMABILITY : COMBUSTIBLE
- SPONTANEOUS COMBUSTIBILITY : NOT APPLICABLE
- REACTIVITY WITH WATER : NOT APPLICABLE
- OXIDIZIBILITY : NOT APPLICABLE
- SELF-REACTIVITY : NOT AVAILABLE
- PARTICLE EXPLOSIBILITY : NOT AVAILABLE
- STABILITY AND REACTIVITY : NOT APPLICABLE
- OTHERS : NOT AVAILABLE

11. ECOLOGICAL INFORMATION

- BIODEGRADABILITY : NOT AVAILABLE
- BIOACCUMULATION : NOT AVAILABLE
- FISH TOXICITY : NOT AVAILABLE
- OTHER INFORMATION ON ECOTOXICITY : NOT AVAILABLE

12. DISPOSAL CONSIDERATION

SINCE POLIMALL CONTAINS A LOT OF OILS AND FATS, IT IS BANNED FROM DISPOSING OF BY THROWING AWAY OR BURYING AS INDUSTRIAL WASTE. IT IS REQUIRED TO BE DISPOSED OF BY FOLLOWING THE "WASTE DISPOSAL LAW" .

13. TRANSPORT INFORMATION

KEEP AWAY FROM SUNLIGHT AND RAIN. AND, DO NOT EXPOSE IT TO DUSTS etc.

14. REGULATORY INFORMATION

"INDUSTRIAL SAFETY AND HEALTH LAW" AND ITS "RULES IN HANDLING FINE PARTICLES" (OPERATION OF POLISHING), "WASTE DISPOSAL LAW".
FOLLOW ALL REGULATIONS IN YOUR COUNTRY.

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