Material Safety Data Sheet

I.

Identity : Biaxially Oriented Polypropylene Film

Manufacture's Name : NAN YA PLASTICS CORPORATION,CHIA-YI 2ND PLANT

Plant Address : 201, Section 2, Pei-Kang RD., Nan-Shing Li,Tau-Pau County, Chia-Yi Hsien,Taiwan,R.O.C.

Emergence Telephone Number : 886-5-2373711 ext 201

Telephone Number for information : 886-5-2373711 ext 201

II. Ingredients :

Poly-Propylene

Filler (SiO_2)

III. Hazard Summary :

Physical Hazard : none

Health Hazard : none

IV. Physical / Chemical Characteristics :

Boiling Point : not applicable — *Special Gravity : 0.90*

Vapor Pressure : not applicable — *Evaporation Rate : not applicable*

Vapor Density : not applicable — *Apperance : white film*

Solubility in Water : insoluble — *Odor : no odor*

V. Fire and Explosion Hazard Data :

Flash point : not applicable

Flammable Limit : not applicable

Extinguish Media : water fog, CO_2, foam, dry chemical

Special Fire Fighting Procedures : in case of need, wear the fire protectors and smokeproof respirators

Unusual Fire and Explosion Hazards : Nil

VI. Reactivity Data :

Stability : stable under normal conditions

Hazardous Decomposition or Byproducts : Nil

Hazardous Polymerization : will not occur

VII. Health Hazard Data :

Health Hazards (Acute and Chronic) : no relevant information found

Sings and symptoms of exposure : no relevant information found

Eye contact : mechanical injury only

Skin contact : mechanical injury only

Ingestion : if large quantities are ingested, pump stomach : n very case get medical attention as required.

VIII. Environmental and Disposal Information :

Action to take for spill and leaks : normal clean up proced·re.

Waste disposal method : incinerate or land-fill. clean waste may be recycled.

IX. Special Protection Information :

Ventilation : remove decomposition fumes with local exhau.t if overheating occurs during processing.

Handling : recommend use of forkl ft truck with probe whe : handing heavy roll goods.

ETERNAL CHEMICAL CO., LTD.
578 CHIEN-KUNG RD., KAOHSIUNG,
TAIWAN, R.O.C.
TEL: (07)3838181
FAX: (07)6968705

ETERSOL 1001 July 1996

SECTION I PRODUCT INFORMATION

General or Generic ID: Aqueouse polymeric emulsion
DOT Hazard Classification: Not applicable

SECTION II HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	(by Wt%)	HAZARD DATA		
		TWA	**STEL**	**CELLING**
Water	39 ~ 41	not established	not established	not established
Acrylic polymer	59 ~ 61	not established	not established	not established

SECTION III PHYSICAL DATA

BP: 212°F(100°C, 760mmHg)
MP: N/A
Vapor Pressure: 760 mmHg
Specific Vapor Density: heavier than air
Specific Gravity: lighter than water
Evaporation Rate: slower than ether ether
Appearance and Odor: milky white liquid,little odor
Solubility in H_2O % by wt.: dilutable

SECTION IV FIRE AND EXPLOSION HAZARDS DATA

FLASSH POINT: >200°F (93.3°C) **LOWER** not established **UPPER** not established
EXTINGUISHING MEDIA: Alcohol form carbon dioxide or dry chemical.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide, various hydrocarbons, etc.
FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

SPECIAL FIRE & EXPLOSION HAZARDS: Never use welding or cutting torch on or near drum(even empty) because product(even just residue)can gnite explosively.

EFFECTS OF ACUTE OVEREXPOSURE: for product

EYES ----------	can cause irritation
SKIN ----------	can cause irritation
BREATHING -----	excessive inhalation of vapors can cause nasal and respiratory irritation
SWALLOWING ----	can cause gastrointestinal irritation, nausea, vomiting, and diarrhea

FIRST AID

IF ON SKIN:	thoroughly wash exposed area with soap and water, remove contaminated clothing, launder contaminated clothing before re-use.
IF ON EYES:	flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.
IF SWALLOWED:	immediately drink two glases of water and induce vomiting by either giving ipecac syrup or by placing finger at back of throat. Never give anything by mouth to an unconscious person, get medical attention immediately.
IF BREATHED:	remove individual to fresh air. If breathing is difficult, adminster oxygen. If breathing has stopped give artificial respiration. Keep person warm, quiet and get medical attention.

PRIMARY ROUTES(S) OF ENTRY: inhalation, skin contact

EFFECTS OF CHRONIC OVEREXPOSURE: for product

Overexposure to this material (or its components) has apparently been found to cause the following effect in laboratory animals: liver abnormalities,kidney damage, lung damage, spleen damage.

Overexposure to this material (or its components) has been suggested as a cause of the following effect in humans, liver abnormalities.

SECTION VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

INCOMPATIBILITY: none

HAZARDOUS DECOMPOSITION PRODUCTS: none

HAZARDOUS POLYMERIZATION: Cannot occur

SECTION VII SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: spills should be contained and place in suitable container for disposal.

WASTE DISPOSAL METHOD: incinerate or bury as a solid in a licensed facility

SECTION VIII SPECIAL PROTECTION INFORMATION

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT: none

RESPIRATORY PROTECTION: not required under normal conditions of us. and mists curgenerated as in spray applications.

PROTECTIVE GLOVES: rubber gloves

EYE PROTECTION: splash proof goggles

OTHER PROTECTIVE EQUIPMENT: eye wash facility, emergency shower, protective clothing.

SECTION IX SPECIAL PRECAUTIONS OR OTHER COMMENTS

PRECAUTIONARY STATEMENTS: keep from heat

OTHER HANDLING & STORAGE REQUIREMENTS: do not leave containers open, avoid repeated or prolonged contact with skin.