Material Safety Data Sheet

MSDS Number*	NABAKEM NBM-6012	PAGE
AC-100		(1 / 5)

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity (Trade Name As Used On Label) : AC-100

Chemical Family : Blended Compound

Manufacturer Name /Address :

NAMBANG CNA CO., LTD. / 392-3 Chupal-ri, Pyongtaek-si, Kyonggi-do, KOREA 451-805

TEL : 82 31 651 5911~8 FAX : 82 31 691 6441 / 82 31 658 6441

Date Prepared : Jun. 27. 2005

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	%*	Hazardous
Unknown modified acrylic polymer	-	20~30	-
Polypropylene glycol	57-55-6	<10	-
Toluene	108-88-3	5~10	-
Xylene	1330-20-7	25~35	-
Dimethyl ether	115-10-6	28~32	-

SECTION 3. HAZARD IDENTIFICATION

NFPA Rating :

NFPA Rating / Ingredients	Health	Flammability	Reactivity
Unknown modified acrylic polymer	-	-	-
Polypropylene glycol	1	1	0
Toluene	2	3	0
Xylene	2	3	0
Dimethyl ether	2	4	1

Eye Contact : When contact, Irritation and corneal burn

Skin Contact : Repeat , continuous when contact irritation and dermatitis, skin defatting

Inhalation : Excessive exposure can cause irritation eye, nose, neck, lungs, respiratory, and can cause depression of central nervous system, nausea, headache, dizziness, equilibrium obstacle and suffocation

VNDT CÔNG TY TNHH VNNDT NABAKEM Chemicals & Aerosol
NHẬP KHẨU / PHÂN PHỐI SỈ & LẺ HÓA CHẤT NABAKEM, HÀN QUỐC:
- Giá cả cạnh tranh, ưu đãi lớn
- Đáp ứng thường xuyên, số lượng nhiều
- Phục vụ nhiệt tình, hỗ trợ tốt
- Dịch vụ thuận tiện, đáp ứng nhanh
- Luôn: Đặt quyền lợi & sự hài lòng của khách hàng lên hàng đầu!.

Uy Tín – Chuyên Nghiệp – Hợp Tác Cùng Phát Triển

Ingestion : Can be noxious when swallow.

SECTION 4. FIRST AID PROCEDURES

Eye : Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin : Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion : Aspiration hazard. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. If vomiting occurs, keep head below hips to prevent aspiration into lungs.

SECTION 5. FIRE AND EXPLOSION HAZARD DATA

Flash Point : -41℃(Dimethyl ether)

Auto-Ignition Temperature : No information found

Flammability Limits in Air % by Volume :

Lel : N.A ; uel : N.A.

Extinguisher Media : Dry chemical, foam or carbon dioxide. Water may be used to flush spills away from exposures and to dilute spills to nonflammable mixtures.

Special Fire Fighting Procedures : In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Combustion by-products include phosgene and hydrogen chloride gases. Structural firefighters' clothing provides only limited protection to the combustion products of this material.

Unusual Fire and Explosion Hazards : No information found

SECTION 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect

VNDT CÔNG TY TNHH VNNDT NABAKEM Chemicals & Aerosol
NHẬP KHẨU / PHÂN PHỐI SỈ & LẺ HÓA CHẤT NABAKEM, HÀN QUỐC:
- Giá cả cạnh tranh, ưu đãi lớn
- Đáp ứng thường xuyên, số lượng nhiều
- Phục vụ nhiệt tình, hỗ trợ tốt
- Dịch vụ thuận tiện, đáp ứng nhanh
- Luôn: Đặt quyền lợi & sự hài lòng của khách hàng lên hàng đầu!.

Uy Tín – Chuyên Nghiệp – Hợp Tác Cùng Phát Triển

liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

SECTION 7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

Because package is metal, that keep in place that there is no causticity.

That keep in 40℃ low.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation System : A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Respiratory Protection : None required if good ventilation is maintained. For enclosed areas, use NIOSH approved organic vapor cartridge respirator or self- contained breathing apparatus.

Eye Protection : Use face shield, goggled or safety glasses.

Protective Gloves : Use solvent resistant gloves for brushing and spraying.

Other Protective Clothing and Equipment : None

Hygienic Work Practices : Wash hands with soap and water after use and/or before breaks, lunch and at the end of work periods. Remove contaminates clothing and launder before reuse.

Airborne Exposure Limits :

Toluene:

- OSHA Permissible Exposure Limit (PEL):

  200 ppm (TWA); 300 ppm (acceptable ceiling conc.); 500 ppm (maximum conc.).

- ACGIH Threshold Limit Value (TLV):

  50 ppm (TWA) skin A4 – Not Classifiable as a Human Carcinogen.

VNDT CÔNG TY TNHH VNNDT NABAKEM Chemicals & Aerosol
NHẬP KHẨU / PHÂN PHỐI SỈ & LẺ HÓA CHẤT NABAKEM, HÀN QUỐC:
- Giá cả cạnh tranh, ưu đãi lớn
- Đáp ứng thường xuyên, số lượng nhiều
- Phục vụ nhiệt tình, hỗ trợ tốt
- Dịch vụ thuận tiện, đáp ứng nhanh
- Luôn: Đặt quyền lợi & sự hài lòng của khách hàng lên hàng đầu!.

Uy Tín – Chuyên Nghiệp – Hợp Tác Cùng Phát Triển

Dimethyl ether : 1000ppm TWA

xylene :

-OSHA Permissible Exposure Limit (PEL): 100 ppm (TWA)

SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Clear

Odor : solvent odor

Ph : No information found

Solubility in Water : insoluble

Boiling Point : 110℃

Melting Point : -120℃

Inner can Pressure : 5.0±1.0kgf/㎠

Vapor Pressure(mmHg) : No information found

Specific Gravity (H_2O = 1) : 0.90 ± 0.05

Vapor Density (Air =1) : No information found

Evaporation Rate (BuAc=1) : No information found

SECTION 10. STABILITY AND REACTIVITY

STABILITY : Stable under ordinary conditions of use and storage

Conditions to Avoid : Heat, flame, ignition sources, light, moisture, incompatibles

Incompatability (Materials to Avoid) : Strong oxidizing agents, Sodium nitrate

Hazardous Decomposition Products : Carbon dioxide

Hazardous Polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion : Oral rat LD50: 20g/kg (Polypropylene glycol), rat LD50: 636 mg/kg(Toluene), Oral rat LD50: 4300 mg/kg (Xylene)

Skin : Skin rabbit LD50: 20.8g/kg(Polypropylene glycol), rabbit LD50: 14100 uL/kg(Toluene), rabbit LD50: > 1700 mg/kg (Xylene)

Inhalation : inhalation rat LC50: 49 gm/m3/4H(Toluene), rat LC50: 5000 ppm/4H(Xylene)

Other data : Reproductive Toxicity: Has shown some evidence of reproductive effects in laboratory animals.(Toluene)

VNDT CÔNG TY TNHH VNNDT NABAKEM Chemicals & Aerosol

NHẬP KHẨU / PHÂN PHỐI SỈ & LẺ HÓA CHẤT NABAKEM, HÀN QUỐC:

- Giá cả cạnh tranh, ưu đãi lớn
- Đáp ứng thường xuyên, số lượng nhiều
- Phục vụ nhiệt tình, hỗ trợ tốt
- Dịch vụ thuận tiện, đáp ứng nhanh
- Luôn: Đặt quyền lợi & sự hài lòng của khách hàng lên hàng đầu!.

Uy Tín – Chuyên Nghiệp – Hợp Tác Cùng Phát Triển

SECTION 12. ECOLOGICAL INFORMATION

Biodegradation : No information found

Fish Toxicity : No information found

Activated sludge respiration inhibition : No information found

Algal growth inhibition : No information found

SECTION 13. DISPOSAL CONSIDERATION

Recommendation : Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Proper Shipping Name Aerosol Class No 2

UN-NUMBER : UN 1950

SECTION 15. REGULATORY INFORMATION

Follow all regulation in your country

SECTION 16. PREPARATION DATA OF MSDS

The foregoing technical information and recommendations are complied from source that are believed to be accurate and reliable. However, they are supplied without warranty or guarantee of any kind either expressed or implied. The purchaser is responsible for selecting and determining the suitability of products for purchaser particular needs and we disclaim any responsibility for improper application or misuse of our products in any manner whatsoever.

VNDT CÔNG TY TNHH VNNDT NABAKEM Chemicals & Aerosol

NHẬP KHẨU / PHÂN PHỐI SỈ & LẺ HÓA CHẤT NABAKEM, HÀN QUỐC:

- Giá cả cạnh tranh, ưu đãi lớn
- Đáp ứng thường xuyên, số lượng nhiều
- Phục vụ nhiệt tình, hỗ trợ tốt
- Dịch vụ thuận tiện, đáp ứng nhanh
- Luôn: Đặt quyền lợi & sự hài lòng của khách hàng lên hàng đầu!.

Uy Tín – Chuyên Nghiệp – Hợp Tác Cùng Phát Triển