

Material Safety Data Sheet

MSDS Number*

NABAKEM NBM-8004

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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity (Trade Name As Used On Label) : WHITE PAINT MP-35

Chemical Family : Blended Compound

Manufacturer Name /Address :

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

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SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	%*	Hazardous
Alkyd resin	-	5~15	-
Titanium oxide	13463-67-7	25~35	-
Xylene	1330-20-7	15~25	-
DME GAS	115-10-6	<40	-

SECTION 3. HAZARD IDENTIFICATION

NFPA Rating :

Ingredients	NFPA Rating		
	Health	Flammability	Reactivity
Alkyd resin	1	1	0
Titanium oxide	1	0	0
Xylene	2	3	0
DME GAS	2	4	1

Eye Contact : Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

Skin Contact : Causes irritation. May be absorbed through skin.

Inhalation : Inhalation of vapors may be irritating to the nose and throat. Inhalation of high concentrations may result in nausea, vomiting, headache, ringing in the ears, and severe breathing difficulties which may be delayed in onset. Substernal pain, cough, and hoarseness

are also reported. High vapor concentrations are anesthetic and central nervous system depressants.

Ingestion : Ingestion causes burning sensation in mouth and stomach, nausea, vomiting and salivation, which may be fatal.

SECTION 4. FIRST AID PROCEDURES

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

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.

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 °C (Dimethyl ether)

Auto-Ignition Temperature : No information found

Flammability Limits in Air % by Volume : 3.4 / 27.0% (Dimethyl ether)

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

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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 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.

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 contaminated clothing and launder before reuse.

Airborne Exposure Limits :

Titanium oxide : 10mg/m³ TWA

Xylene : 100 ppm (TWA) 150 ppm (STEL)

Dimethyl ether : 1000 ppm TWA

SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : White film after drying
Odor : Aromatic solvents odor
Ph : No information found
Solubility in Water : insoluble
Boiling Point : No information found
Melting Point : No information found
Vapor Pressure(mmHg) : No information found
Specific Gravity (H₂O = 1) : 0.73 ± 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, flames, ignition sources and incompatibles.

Incompatibility (Materials to Avoid) : Strong oxidizing agents and strong acids.

Hazardous Decomposition Products : Involvement in a fire causes formation of carbon monoxide and unidentified organic components..

Hazardous Polymerization : Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion : Oral rat LD50 : 4300 mg/kg (Xylene)

Skin : skin rabbit LD50 : >1700 mg/kg (Xylene)

Inhalation : inhalation rat LC50 : 5000 ppm/4H (Xylene)

Other data : Reproductive Toxicity : May cause teratogenic effects. (Xylene)

SECTION 12. ECOLOGICAL INFORMATION

- Xylene -

Environmental Fate :

Following data for xylene: When released into the soil, this material may evaporate to a moderate extent. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material may evaporate to a moderate extent. When released into water, this material may biodegrade

to a moderate extent. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate. (mixed xylenes: octanol / water partition coefficient 3.1 – 3.2 ; bioconcentration factor = 1.3, eels)

Environmental Toxicity :

For xylene: This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.

SECTION 13. DISPOSAL CONSIDERATION

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14. TRANSPORT INFORMATION

Aerosol Class No 2

UN-NUMBER : UN 1950

SECTION 15. REGULATORY INFORMATION

Follow all regulation in your country

SECTION 16. PREPARATION DATA OF MSDS

This information has been faithfully prepared on the basis of various knowledge and information and is not to guarantee the quality of this product. Also, this information can be changed without prior notice in accordance with introduction of new knowledge and test results, etc. For inquiries, please contact us or the place of product purchase