

# Material Safety Data Sheet

MSDS Number\*

NABAKEM NBM-8003

PAGE

MEGA CHECK DEVELOPER

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## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity (Trade Name As Used On Label) : MEGA CHECK DEVELOPER

Chemical Family : Blended Compound

Manufacturer Name /Address :

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

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

Date Prepared : Jan. 26. 2007

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	%*	Hazardous
Isopropyl alcohol	67-63-0	50~60	-
Talc powder	14807-96-6	1~10	-
Silica	7631-86-9	1~10	-
Liquified petroleum gas	68476-85-7	<35	-

## SECTION 3. HAZARD IDENTIFICATION

NFPA Rating :

Ingredients	NFPA Rating		
	Health	Flammability	Reactivity
Isopropyl alcohol	2	3	0
Talc powder	1	0	0
Silica	1	0	0
Liquified petroleum gas	2	4	0

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

Skin Contact : May cause irritation with redness and pain.

Inhalation : Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness

Ingestion : When swallow , fatality or noxious

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## SECTION 4. FIRST AID PROCEDURES

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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 : In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

Ingestion : If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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## SECTION 5. FIRE AND EXPLOSION HAZARD DATA

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Flash Point : -73°C(Liquified petroleum gas)

Auto-Ignition Temperature : No information found

Flammability Limits in Air % by Volume : 1.9 / 9.5% (Liquified petroleum gas)

Extinguisher Media : Dry chemical, alcohol foam or carbon dioxide. Water may be ineffective. Water spray may be used to keep fire exposed containers cool.

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

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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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 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.

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## SECTION 7. HANDLING AND STORAGE

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Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. 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.

Do not heat above 50°C.

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## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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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 : A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

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

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

Other Protective Clothing and Equipment : Lab coat, eye wash, and safety shower.

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 : (Isopropyl alcohol) TWA : 400ppm, 980mg/m<sup>3</sup>

(Talc powder ) TWA : 2mg/m<sup>3</sup>

(Silica) TWA : 10mg/m<sup>3</sup>

(Liquified petroleum gas) 1000 ppm (1800 mg/m<sup>3</sup>) OSHA TWA

1000 ppm ACGIH TWA

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## SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

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Appearance : White liquid.

Odor : Alcohol 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 (H<sub>2</sub>O = 1) : 0.88 ± 0.05

Vapor Density (Air =1) : No information found

Evaporation Rate (Ether=1) : No information found

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## SECTION 10. STABILITY AND REACTIVITY

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STABILITY : Stable under ordinary conditions of use and storage

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

Incompatibility (Materials to Avoid) : Open flames, welding arcs, nitrogen tetroxide, oxygen, liquid oxygen, sodium, sodium hydroxide, and sodium-potassium alloy, strong alkalis, oxidizers, aluminum and other reactive metals.

Hazardous Decomposition Products : Carbon oxide

Hazardous Polymerization: Will not occur.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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Ingestion : Oral rat LD50 : 5000mg/kg (Isopropyl alcohol)

Oral rat LD50 : 2520mg/kg (Liquified petroleum gas)

Skin : Skin rabbit LD50 : 12800mg/kg (Isopropyl alcohol)

Inhalation : Inhalation rat LD50 : 16000ppm/8hr (Isopropyl alcohol)

Other data : No information found

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## SECTION 12. ECOLOGICAL INFORMATION

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Biodegradation : No information found

Fish Toxicity : No information found

Activated sludge respiration inhibition : No information found

Algal growth inhibition : No information found

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## SECTION 13. DISPOSAL CONSIDERATION

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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.

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## SECTION 14. TRANSPORT INFORMATION

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Aerosol Class 2 UN No. 1950

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## SECTION 15. REGULATORY INFORMATION

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Follow all regulation in your country

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## SECTION 16. PREPARATION DATA OF MSDS

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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