

Material Safety Data Sheet

MSDS Number*	NABAKEM NBM-8002	PAGE
MEGA CHECK	PENETRANT	(1 / 6)

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity (Trade Name As Used On Label); MEGA CHECK PENETRANT

Chemical Family; Blended Compound

Manufacturer Name /Address;

NAMBANG CNA CO., LTD. / 392-3 Chupal-ri, Paengsung-Eup, Pyongtaek-si, Kyonggi-do,
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SECTION 2. HAZARD IDENTIFICATION

Hazard Class

Hazard Class	Hazard category
Flammable aerosols	1
Serious eye irritation	2
Skin sensitizer	1

GHS label elements, including precautionary statements

Category	Indication	
Symbol		
Signal word	Danger	
Hazard statement	<ul style="list-style-type: none"> - Extremely flammable aerosol - Causes skin irritation - May cause allergic skin reaction 	
Precautionary statements	Prevention	<ul style="list-style-type: none"> - Pressurized container: Do not pierce or burn, even after use. - Do not spray on an open flame or any white-hot material. - Keep away from ignition sources such as heat/sparks/open flames-No smoking. - Wear eye/face protection as specified by the manufacturer/supplier or the competent authority. - Wear protective gloves as specified by the manufacturer/supplier or the competent authority. - Avoid breathing dust/fume/gas/mist/vapours/spray. - Contaminated work clothing should not be allowed out of the workplace.
	Response	<ul style="list-style-type: none"> - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - If eye irritation persists, get medical advice/attention.

		<ul style="list-style-type: none"> - Wash hands after handling - IF ON SKIN: Wash with plenty of soap and water. - If skin irritation or rash occurs, seek medical advice/attention. - Wash contaminated clothing before reuse.
	Storage	- Protect from sunlight and do not expose to temperatures exceeding 50 °C
	Disposal	- Dispose of contents/container to.....(in accordance with local/regional/national/international regulation).

Other hazards which do not result in classification : No information found

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	%*	Hazardous
Aromatic solvent	64742-94-5	40~50	-
Diacetone alcohol	123-42-2	5~15	-
Castor oil	8001-79-4	1~10	-
Red oil	1320-06-5	<3	-
Liquefied petroleum gas	68476-85-7	25~35	-

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-FIGHTING MEASURES

Suitable extinguishing media; Dry chemical, foam or carbon dioxide. Water may be ineffective

Specific hazards arising from the chemical; No information found

Special protective equipment and precautions for fire fighters; 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. Water spray may be used to keep fire exposed containers cool. Vapors can flow along surfaces to distant ignition source and flash back. Vapor explosion hazard exists indoors, outdoors, or in sewers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate area of leak or spill. 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. 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!

SECTION 7. HANDLING AND STORAGE

Protect against physical damage. Store in a cool, dry well-ventilated location, away from direct sunlight and any area where the fire hazard may be acute. Store in tightly closed containers (preferably under nitrogen atmosphere). Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separate from oxidizing materials. 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. 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

Airborne Exposure Limits;

Aromatic solvent :

200 mg/m³ ACGIH TWA (skin)

100 mg/m³ NIOSH

Diacetone alcohol :

TWA : 50 ppm, 240 mg/m³

STEL : -

50 ppm (240 mg/m³) OSHA TWA

50 ppm ACGIH TWA

Liquefied petroleum gas :

1000 ppm (1800 mg/m³) OSHA TWA

1000 ppm ACGIH TWA

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 laundry before reuse.

SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance; Red oil liquid

Odor; Solvent odor

Odour threshold; No information found

Ph; No information found

Melting point/freezing point; No information found

Initial boiling point and boiling range; No information found

Flash point; -73°C(Liquefied petroleum gas)

Evaporation rate; No information found

Flammability (solid, gas); No information found

Upper/lower flammability or explosive limits; 1.9 / 9.5% (Liquid petroleum gas)

Vapour pressure; No information found

Vapour density; No information found

Specific Gravity (H₂O = 1) : 0.90 ± 0.05

Relative density; No information found

Solubility(ies); Insoluble

Partition coefficient: n-octanol/water; No information found

Auto-ignition temperature; No information found

Decomposition temperature; No information found

Viscosity : No information found

SECTION 10. STABILITY AND REACTIVITY

STABILITY : Stable under ordinary conditions of use and storage

Hazardous Polymerization: Will not occur.

Conditions to Avoid : Heat, flames, ignition sources and incompatibles

Incompatibility (Materials to Avoid) : Strong oxidizers.

Hazardous Decomposition Products : carbon oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion : Oral rat LD50 : 2520mg/kg (Diacetone alcohol)

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

Skin : Skin rabbit LD50 : >2ml/kg (Aromatic solvent)

Skin rabbit LD50 : 13500mg/kg (Diacetone alcohol)

Inhalation : Inhalation rat LD50 : >590mg/m³/4hr (Aromatic solvent)

Other data : No information found

SECTION 12. ECOLOGICAL INFORMATION

Toxicity; No information found

Persistence and degradability; No information found

Bioaccumulative potential; No information found

Mobility in soil; No information found

Other adverse effects; No information found

SECTION 13. DISPOSAL CONSIDERATION

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal 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

Proper Shipping Name Aerosol Class No 2

UN-NUMBER : UN 1950

SECTION 15. REGULATORY INFORMATION

Follow all regulation in your country

SECTION 16. OTHER INFORMATION

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.