

Material Safety Data Sheet

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MAGNETIC PARTICLE SPRAY SM-15	(1 / 5)

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity (Trade Name As Used On Label) : MAGNETIC PARTICLE SPRAY SM-15

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

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SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	%*	Hazardous
Magnetic particle	S1	<1	-
Hydrotreated light distillate	64742-47-8	>51	-
White oil	8042-47-5	<10	-
Liquified petroleum gas	68476-85-7	<40	-

SECTION 3. HAZARD IDENTIFICATION

NFPA Rating :

Ingredients	NFPA Rating		
	Health	Flammability	Reactivity
Magnetic particle	-	-	-
Hydrotreated light distillate	1	2	0
White oil	1	1	0
Liquified petroleum gas	2	4	0

Eye Contact : May cause irritation.

Skin Contact : The defatting action of this solvent may lead to soreness, inflammation and, possibly, dermatitis.

Inhalation : Effects are typically those of most hydrocarbons, dizziness and euphoria leading to unconsciousness in severe cases. Vapors also irritate the respiratory tract. Symptoms may include coughing, difficult breathing and chest pain. A central nervous system depressant

Ingestion : When swallow , fatality or noxious.

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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 : 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.

SECTION 5. FIRE AND EXPLOSION HAZARD DATA

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 : Water spray, dry chemical, alcohol foam, or carbon dioxide. Direct stream of water can scatter and spread flames.

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. Water spray may be used to keep fire exposed containers cool.

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 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.

SECTION 7. HANDLING AND STORAGE

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.

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 : 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 :

Hydrotreated light distillate :

500 ppm(2000mg/m³) OSHA TWA

White oil :

TWA : 5 mg/m³

STEL : 10 mg/m³

5 mg/m³ OSHA TWA

5 mg/m³ ACGIH TWA

10 mg/m³ ACGIH STEL

Liquified petroleum gas :

1000 ppm (1800 mg/m³) OSHA TWA

1000 ppm ACGIH TWA

SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Black particle suspension
Odor : Petrolic 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) : 0.70 ± 0.05
Vapor Density (Air =1) : No information found
Evaporation Rate (Ether=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) : 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.

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion : Oral rat LD50 : >5000mg/kg (Hydrotreated light distillate)
Skin : Skin rabbit LD50 : >3160mg/kg (Hydrotreated light distillate)
Inhalation : Inhalation rat LD50 : >658mg/m³/4hr (Liquified petroleum gas)
Other data : No information found

SECTION 12. ECOLOGICAL INFORMATION

Biodegradation : No information found

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Fish Toxicity : No information found

Activated sludge respiration inhibition : No information found

Algal growth inhibition : No information found

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 2

UN No. 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