

Material Safety Data Sheet

PRODUCT NAME

PAGE

ZINCOT N-50S

(1 / 5)

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity (Trade Name As Used On Label) : ZINCOT N-50S

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
Modified epoxy resin	-	5~15	-
Zinc dust	7440-66-6	25~35	-
Toluene	108-88-3	20~30	-
Additive	S1	<10	-
Dimethyl ether	115-10-6	25~35	-

SECTION 3. HAZARD IDENTIFICATION

NFPA Rating :

Ingredients	NFPA Rating		
	Health	Flammability	Reactivity
Modified epoxy resin	-	-	-
Zinc dust	1	3	1
Toluene	2	3	0
Additive	-	-	-
Dimethyl ether	2	4	1

Eye Contact : May cause irritation.

Skin Contact : May cause irritation.

Inhalation : May cause irritation, emesis, headache, sleepiness, dizziness, sleep obstacle, the dilation of the pupil and loss of appetite

Ingestion : May cause irritation, emesis, headache, sleepiness, dizziness, sleep obstacle, the dilation of the pupil and loss of appetite

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 : >250 °C

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 : Intensive heat created by fire will cause aerosols to burst.

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

PRODUCT NAME	PAGE
ZINCOT N-50S	(3 / 5)

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 : 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 :

Zinc dust :

TWA : 5 mg/m³

STEL : 10 mg/m³

Toluene :

TWA : 100 ppm, 375 mg/m³

STEL : 150 ppm, 560 mg/m³

200 ppm OSHA TWA

Dimethyl ether : 1000 ppm TWA

SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Gray liquid

Odor : solvent 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) : 1.20 ± 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

Incompatibility (Materials to Avoid) : Strong oxidizing agents.

Hazardous Decomposition Products : Thermal decomposition may yield carbon monoxide and zinc oxide.

Hazardous Polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion : Oral rat LD50 : 636 mg/kg (Toluene)

Skin : skin rabbit LD50 : 14100 ul/kg (Toluene)

Inhalation : inhalation rat LC50 : 49 g/m³/4 H (Toluene)

Other data : No information found

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

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

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

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.