

Material Safety Data Sheet

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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identity (Trade Name As Used On Label) : TAPPING COMPOUND TC#1

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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Date Prepared : May. 15. 2008

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	%*	Hazardous
Lubricating oil	-	<5	-
Anti-Corrosive oil	-	<5	-
Ethynyl trichloride	79-01-6	70~80	-
Dichloromethane	75-09-2	10~20	-
Stabilizer	-	<5	-

SECTION 3. HAZARD IDENTIFICATION

NFPA Rating :

Ingredients	Health	Flammability	Reactivity
Lubricating oil	2	1	0
Anti-Corrosive oil	-	-	-
Ethynyl trichloride	2	1	1
Dichloromethane	3	1	0
Stabilizer	-	-	-

Eye Contact : Vapors may cause severe irritation with redness and pain. Splashes may cause eye damage.

Skin Contact : Cause irritation, redness and pain. Can cause blistering. Continued skin contact has a defatting action and can produce rough, dry, red skin resulting in secondary infection.

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Inhalation : Vapors can irritate the respiratory tract. Causes depression of the central nervous system with symptoms of visual disturbances and mental confusion, incoordination, headache, nausea, euphoria, and dizziness. Inhalation of high concentrations could cause unconsciousness, heart effects, liver effects, kidney effects, and death.

Ingestion : Causes irritation to gastrointestinal tract. May also cause effects similar to inhalation. May cause coughing, abdominal pain, diarrhea, dizziness, pulmonary edema, unconsciousness. Kidney failure can result in severe cases.

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 : No information found

Auto-Ignition Temperature : No information found

Flammability Limits in Air % by Volume : No information found

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

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! 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 : 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 contaminated clothing and launder before reuse.

Airborne Exposure Limits :

Lubricating oil :

TWA : 5 mg/m³

STEL : 10 mg/m³

5 mg/m³ OSHA TWA

5 mg/m³ ACGIH TWA

10 mg/m³ ACGIH STEL

Ethynyl trichloride :

TWA : 50 ppm, 270 mg/m³

STEL : 200 ppm, 1080 mg/m³

100 ppm OSHA TWA

50 ppm ACGIH TWA

100 ppm ACGIH STEL

Dichloromethane :

TWA : 50 ppm, 175mg/m³

STEL : -

25 ppm OSHA TWA PEL

50 ppm ACGIH TWA

SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Clear liquid

Odor : Sweetish 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) : 1.40 ± 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

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 : May produce carbon monoxide, carbon dioxide, hydrogen chloride and phosgene when heated to decomposition.

Hazardous Polymerization : Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion : No information found
Skin : No information found
Inhalation : No information found
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

No information found

SECTION 15. REGULATORY INFORMATION

Follow all regulation in your country

SECTION 16. PREPARATION DATA OF MSDS

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