

Material Safety Data Sheet

MSDS Number* NABAKEM NBM-0004

PAGE

TAPPING COMPOUND TC#1

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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; Mar. 05. 2007

SECTION 2. HAZARD IDENTIFICATION

Hazard Class

Hazard Class	Hazard category
Skin irritation	2
Serious eye irritation	2
Specific target organ systemic toxicity (single exposure)	1
Specific target organ systemic toxicity (repeated exposure)	1

GHS label elements, including precautionary statements

Category	Indication	
Symbol		
Signal word	Danger	
Hazard statement	<ul style="list-style-type: none"> - Causes skin irritation - Causes serious eye irritation - Causes damage to organs through prolonged or repeated exposure 	
Precautionary statements	Prevention	<ul style="list-style-type: none"> - Wear protective gloves as specified by the manufacturer/supplier or the competent authority. - Wash thoroughly after handling. - Do not eat, drink or smoke when using this product. - Wash hands thoroughly after handling. - Do not breathe dust/fume/gas/mist/vapours/spray.
	Response	<ul style="list-style-type: none"> - IF ON SKIN: Wash with plenty of soap and water. - Take of contaminated clothing and wash before re-use. - If skin irritation occurs, seek medical advice/attention. - 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. - Wash hands after handling - IF exposed: Call a POISON CENTER or doctor/physician. - Get medical attention/advice if you feel unwell.
	Storage	- Protect from sunlight and store in well-ventilated place. - Store locked up.
	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
Trichloro ethane	71-55-6	>78	-
Polytetrafluoroethylene	9002-84-0	<5	-
Lubricating oil	8012-95-1	<10	-
Anti-Corrosive oil	S1	<3	-
Antioxidant	S2	<3	-
Stabilizer	S3	<1	-

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; Use water spray to keep fire exposed containers cool. If substance does ignite, use CO₂, dry chemical or foam.

Specific hazards arising from the chemical; No information found

Special protective equipment and precautions for fire fighters; No information found

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

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. Store below boiling point. 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

Airborne Exposure Limits;

1,1,1-Trichloroethane

TWA : 350 ppm, 1900 mg/m³

STEL : 450 ppm, 2450 mg/m³

OSHA TWA : 350 ppm (1900 mg/m³)

ACGIH TWA : 350 ppm

ACGIH STEL : 450 ppm

DFG MAK : 1100 mg/m³ (200 ml/m³)

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

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 laundry before reuse.

SECTION 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance; Light yellow

Odor; Sweetish odor

Odour threshold; No information found

Ph; No information found

Melting point/freezing point; -30.4 °C

Initial boiling point and boiling range; 74 °C

Flash point; No information found

Evaporation rate; No information found

Flammability (solid, gas); No information found

Upper/lower flammability or explosive limits; No information found

Vapour pressure; No information found

Vapour density; No information found

Specific Gravity (H₂O = 1) : 1.32 ± 0.05

Relative density; No information found

Solubility(ies); Insoluble

Partition coefficient: n-octanol/water; 2.49

Auto-ignition temperature; 537°C

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, flame, ignition sources, light, moisture, incompatibles

Incompatibility (Materials to Avoid) : Oxidizing agent, base, metal, alkali metal, lithium

Hazardous Decomposition Products : carbon oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion; Oral rat LD50 : 9600 mg/kg (1,1,1-Trichloroethane)

Skin; No information found

Inhalation; inhalation rat LC50 : 3911 ppm/2hr (1,1,1-Trichloroethane)

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

No information found

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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.