

TAK-DOPE™ ZN50

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Identifier:

- Product Name: **TAK-DOPE™ ZN50**
- Product Code: N/A

Recommended Use of the Chemical and Restrictions on Use:

- Recommended Use: Lubricating dope for oil and gas industry applications
- Restrictions on Use: Not for food, drug, pesticide or biocidal product use

Details of the Supplier of the Safety Data Sheet:

- Manufacturer/Supplier: TAKAMOL Engineering Industries
- Address: Factory # 301, South West 6A Industrial Area, 10th of Ramadan, Ash-Sharqia Government, Egypt
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Emergency Telephone Number:

- Emergency Contact: +201066677258
- Hours of Operation: [24/7]

SECTION 2: HAZARD(S) IDENTIFICATION

Classification according to GHS

- **Skin Irritation (Category 2)**
- **Eye Irritation (Category 2A)**
- **Specific Target Organ Toxicity – Single Exposure (Category 3)**
- **Aquatic Chronic Toxicity (Category 2)**

Label Elements

Signal Word: *Warning*

Pictograms:



Hazard Statements:

- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation
- H411: Toxic to aquatic life with long lasting effects

Precautionary Statements:

- P261: Avoid breathing dust/fume/mist
- P273: Avoid release to the environment
- P280: Wear protective gloves/eye protection/face protection
- P302+P352: If on skin: Wash with plenty of water
- P305+P351+P338: If in eyes: Rinse cautiously with water

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Component	CAS Number	Concentration (%)	Classification
Mineral Oil	8042-47-5	30-40	Not classified under GHS
Calcium Sulfonate	Mixture	Proprietary	Not classified / proprietary blend
Zinc Dust	7440-66-6	45-55	Aquatic Chronic 1 (H410), STOT SE 3
Graphite	7782-42-5	1-5	STOT SE 3 (H335), Not classified
TALC	14807-96-6	1-5	Not classified (may contain asbestos)

Component	CAS Number	Concentration (%)	Classification
Calcium Oxide	1305-78-8	1-5	Skin Corr. 1B (H314), Eye Dam. 1 (H318)
Lithium Hydroxide	1310-65-2	1-5	Skin Corr. 1B (H314), Eye Dam. 1 (H318)

Note: The specific percentages of composition have been withheld as a trade secret.

SECTION 4: FIRST-AID MEASURES

Inhalation:

Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact:

Wash skin thoroughly with soap and water. Remove contaminated clothing.

Eye Contact:

Rinse immediately with plenty of water. Remove contact lenses. Seek medical advice.

Ingestion:

Do not induce vomiting. Rinse mouth and seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry chemical, CO₂, or water spray.

Hazardous Combustion Products: CO, CO₂, zinc oxides, metal oxides

Protective Equipment: Self-contained breathing apparatus and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid dust formation. Wear appropriate PPE.

Environmental Precautions: Prevent entry into sewers or waterways.

Cleanup: Collect mechanically. Place in a suitable container for disposal.

SECTION 7: HANDLING AND STORAGE

Handling:

- Avoid contact with skin and eyes
- Ensure good ventilation in the work area

Storage:

- Keep container tightly closed in a cool, dry, and well-ventilated area
- Keep away from incompatible substances (acids, oxidizers)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	Exposure Limit (TLV / PEL)
Mineral Oil	5 mg/m ³ (mist, ACGIH)
Graphite	2 mg/m ³ (respirable, ACGIH)
TALC	2 mg/m ³ (respirable, ACGIH – asbestos-free)
Zinc Dust	10 mg/m ³ (total dust, OSHA)
Calcium Oxide	2 mg/m ³ (ACGIH)
Lithium Hydroxide	1 mg/m ³ (TWA, OSHA/NIOSH)

Personal Protective Equipment (PPE):

- **Eye:** Safety goggles
- **Skin:** Chemical resistant gloves
- **Respiratory:** Dust/mist respirator if ventilation is inadequate
- **Other:** Protective clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

NLGI	2
Friction Factor (API RP 5A3 Annex I)	1
Appearance	Grey, Smooth
Dropping Point (ASTM D-2265)	≥350°F (≥177°C)
Flash Point (ASTM D-92)	≥485°F (≥252°C)
Brushable to	5°F (-15°C)
Shelf Life (unopened container)	+Four years
Penetration (ASTM D-217)	265-295
Specific Gravity , at 77°F (25°C)	1.6
Four-Ball EP Weld Point, kgf (ASTM D2596)	500
Base Oil	Mineral oil
Base Grease	Calcium Sulfonate
Solid Content	Zinc + Minerals

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Incompatible Materials: Strong acids, oxidizers

Decomposition Products: CO, CO₂, metal oxides

Hazardous Reactions: None known

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not classified as acutely toxic

Skin Irritation: May cause irritation

Eye Irritation: May cause severe irritation

Chronic Effects: Prolonged exposure may affect lungs (due to talc or graphite dust)

Carcinogenicity: Talc may be carcinogenic if contaminated with asbestos (verify purity)

SECTION 12: ECOLOGICAL INFORMATION

? **Zinc Dust:** Very toxic to aquatic organisms, long-term effects

? **Persistence:** Components may persist in the environment

? **Bioaccumulation:** Expected for some components (e.g., graphite, zinc)

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local, regional, and national regulations. Avoid discharge into waterways.

SECTION 14: TRANSPORT INFORMATION

UN Number: Not regulated

Transport Hazard Class: Not applicable

Environmental Hazards: Contains zinc; avoid spills to waterways

Special Precautions: None

SECTION 15: REGULATORY INFORMATION

- Zinc Dust listed under TSCA, REACH
- Talc and Graphite subject to occupational exposure standards
- Not classified as hazardous under DOT/ADR/IMDG unless spilled in large quantities

SECTION 16: OTHER INFORMATION

Prepared By: TAKAMOL Engineering Industries

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Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet