

# TAK-DOPE™ OCTG

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

#### Product Identifier:

- Product Name: **TAK-DOPE™ OCTG**
- 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
- Phone: +201066677258, +201066677268
- Email: [info@takamol.com.eg](mailto:info@takamol.com.eg)
- Website: [www.takamol.com.eg](http://www.takamol.com.eg)

#### Emergency Telephone Number:

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

### SECTION 2: HAZARD(S) IDENTIFICATION

**Classification of the Substance or Mixture:** Based on available data for the components, this product is not classified as hazardous according to GHS criteria.

#### GHS Label Elements:

- Pictogram: None required
- Signal Word: None required

- Hazard Statement(s): None required
- Precautionary Statement(s):
  - P273: Avoid release to the environment
  - P501: Dispose of contents/container in accordance with local, regional, national, and international regulations

**Other Hazards Not Contributing to the Classification:**

- May cause mild skin and eye irritation in sensitive individuals
- Prolonged or repeated contact may cause drying of the skin
- Silicon component is flammable in solid form, but risk is mitigated in this mixture
- Graphite dust may cause mechanical irritation to the eyes and skin
- Inhalation of large amounts of graphite dust over extended periods may affect lung function
- May form combustible dust concentrations in air (for powdered graphite component)

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixture:**

Component	CAS Number	Concentration (%)	Classification
Mineral Oil	8042-47-5	Proprietary	Not classified as hazardous
Calcium Sulfonate	Mixture	Proprietary	Not classified as hazardous
Silicon	7440-21-3	Proprietary	Flammable solid (Category 2) in pure form
Graphite	7782-42-5	Proprietary	Not classified as hazardous
Boron	7440-42-8	Proprietary	Not classified as hazardous

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

**SECTION 4: FIRST-AID MEASURES**

**Description of First Aid Measures:**

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**If Inhaled:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

**In Case of Skin Contact:** Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

**In Case of Eye Contact:** 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.

**If Swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if symptoms develop.

**Most Important Symptoms and Effects, Both Acute and Delayed:** May cause mild irritation to eyes, skin, and respiratory tract. Prolonged exposure may cause drying of the skin. Graphite dust may cause mechanical irritation to the eyes and respiratory tract.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Unsuitable Extinguishing Media:** High volume water jet.

**Specific Hazards Arising from the Chemical:** During fire, gases hazardous to health may be formed. Silicon component may be flammable in solid form. Graphite dust may form combustible dust concentrations in air.

**Special Protective Equipment and Precautions for Firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

**Further Information:** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Use personal protective equipment. Avoid breathing vapors, mist, or dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and Materials for Containment and Cleaning Up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor, mist, or dust. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. Minimize dust generation and accumulation.

**Conditions for Safe Storage, Including Any Incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Specific End Use(s):** Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:**

**Occupational Exposure Limits:**

- Mineral Oil (CAS 8042-47-5):
  - ACGIH TLV: 5 mg/m<sup>3</sup> (inhalable fraction)
  - OSHA PEL: 5 mg/m<sup>3</sup> (mist)
- Silicon (CAS 7440-21-3):
  - OSHA PEL: 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction)
- Graphite (CAS 7782-42-5):
  - ACGIH TLV: 2 mg/m<sup>3</sup> (respirable fraction)
  - OSHA PEL: 15 mppcf (million particles per cubic foot)

- Boron (CAS 7440-42-8):
  - No established exposure limits

**Appropriate Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Use adequate ventilation to keep airborne concentrations low.

**Individual Protection Measures, Such as Personal Protective Equipment:**

**Eye/Face Protection:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties:**

- Appearance: Semi-solid grainy grease
- Color: Black
- Odor: Mild, characteristic
- Odor Threshold: No data available
- pH: Not applicable
- Melting Point/Freezing Point: No data available

- Initial Boiling Point and Boiling Range: No data available
- Flash Point: > 414°C (> 698°F)
- Evaporation Rate: No data available
- Flammability (solid, gas): Not applicable
- Upper/Lower Flammability or Explosive Limits: No data available
- Vapor Pressure: < 0.01 mmHg at 20°C (based on mineral oil component)
- Vapor Density: No data available
- Relative Density: 0.85-0.95 g/cm<sup>3</sup> at 20°C (estimated)
- Solubility: Insoluble in water
- Partition Coefficient (n-octanol/water): No data available
- Auto-ignition Temperature: No data available
- Decomposition Temperature: No data available
- Viscosity: No data available
- Explosive Properties: Not explosive
- Oxidizing Properties: Not oxidizing

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** No dangerous reactions known under normal conditions of use.

**Conditions to Avoid:** Excessive heat, flames, and other sources of ignition. Dust formation (for graphite component).

**Incompatible Materials:** Strong oxidizing agents, strong acids, strong bases.

**Hazardous Decomposition Products:** Carbon oxides, sulfur oxides, calcium oxides, silicon oxides, boron oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects:**

**Acute Toxicity:** Based on available data, the classification criteria are not met.

- Mineral Oil (CAS 8042-47-5):
  - Oral LD50 (Rat): > 5000 mg/kg
  - Dermal LD50 (Rabbit): > 3000 mg/kg

**Skin Corrosion/Irritation:** Based on available data, the classification criteria are not met. May cause mild skin irritation.

**Serious Eye Damage/Eye Irritation:** Based on available data, the classification criteria are not met. May cause mild eye irritation. Graphite particles may cause mechanical irritation.

**Respiratory or Skin Sensitization:** Based on available data, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure:** Based on available data, the classification criteria are not met. Prolonged inhalation of graphite dust may affect lung function.

**Aspiration Hazard:** Based on available data, the classification criteria are not met.

**Additional Information:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity:** No data available for the mixture. Individual components are not expected to be harmful to aquatic organisms.

**Persistence and Degradability:** No data available. Mineral oil component is expected to be inherently biodegradable.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available. Expected to have low mobility due to low water solubility.

**Results of PBT and vPvB Assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other Adverse Effects:** No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste Treatment Methods:

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated Packaging:** Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: TRANSPORT INFORMATION

### UN Number:

- DOT (US): Not dangerous goods
- IMDG: Not dangerous goods
- IATA: Not dangerous goods

### UN Proper Shipping Name:

- DOT (US): Not dangerous goods
- IMDG: Not dangerous goods
- IATA: Not dangerous goods

### Transport Hazard Class(es):

- DOT (US): Not dangerous goods

- IMDG: Not dangerous goods
- IATA: Not dangerous goods

**Packing Group:**

- DOT (US): Not dangerous goods
- IMDG: Not dangerous goods
- IATA: Not dangerous goods

**Environmental Hazards:**

- Marine pollutant: No

**Special Precautions for User:** No special precautions required

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

## SECTION 15: REGULATORY INFORMATION

**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**

**US Federal Regulations:**

- TSCA: All components are listed on the TSCA inventory or are exempt.
- SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards: No SARA Hazards

**US State Regulations:**

- California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**International Regulations:**

- Canada DSL/NDSL: All components are listed on the Canadian DSL or are exempt.

- EU REACH: All components are either listed, pre-registered, or exempt from registration.

## SECTION 16: OTHER INFORMATION

**Prepared By:** TAKAMOL Engineering Industries

**Revision Date:** 20 May 2025

**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**