

MSDS of fuel oil CST 180 and 380

Fuel oils CST 180 and CST 380 are residual fuel oils commonly used in industrial heating and marine applications. They are characterized by their viscosities, with CST 180 having a viscosity of 180 centistokes and CST 380 having a viscosity of 380 centistokes at 50°C. Below is a consolidated Material Safety Data Sheet (MSDS) for these fuel oils:

1. Identification of the Substance and Company

- **Product Name:** Fuel Oil CST 180 / CST 380
- **CAS Number:** 68476-33-5
- **EC Number:** 270-675-6
- **Intended Use:** Fuel for heating equipment and marine engines
- **Manufacturer/Supplier:** ATDM

2. Hazards Identification

- **Classification:**
 - Acute Toxicity (Inhalation): Category 4
 - Carcinogenicity: Category 1B
 - Reproductive Toxicity: Category 2
 - Specific Target Organ Toxicity (Repeated Exposure): Category 2
 - Aspiration Hazard: Category 1
 - Hazardous to the Aquatic Environment (Chronic): Category 1
 - **Label Elements:**
 - **Signal Word:** Danger
 - **Hazard Statements:**
 - H304: May be fatal if swallowed and enters airways.
 - H332: Harmful if inhaled.
 - H350: May cause cancer.
 - H361: Suspected of damaging fertility or the unborn child.
 - H373: May cause damage to organs through prolonged or repeated exposure.
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- H410: Very toxic to aquatic life with long lasting effects.
- **Precautionary Statements:**
 - **Prevention:**
 - P201: Obtain special instructions before use.
 - P260: Do not breathe dust/fume/gas/mist/vapors/spray.
 - P273: Avoid release to the environment.
 - **Response:**
 - P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - P331: Do NOT induce vomiting.
 - P308 + P313: IF exposed or concerned: Get medical advice/attention.
 - **Storage:**
 - P405: Store locked up.
 - **Disposal:**
 - P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients

- **Substance:** Fuel oil, residual
- **CAS Number:** 68476-33-5
- **EC Number:** 270-675-6
- **Concentration:** 100%

4. First Aid Measures

- **Inhalation:** Move the exposed person to fresh air. If breathing is difficult, administer oxygen. Seek medical attention if symptoms persist.
 - **Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists, seek medical attention.
 - **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation develops.
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- **Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Seek immediate medical attention.

5. Firefighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide, or water spray.
- **Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.
- **Special Hazards:** May produce toxic fumes including carbon monoxide and sulfur oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- **Methods for Cleanup:** Contain spillage, and then collect with non-combustible absorbent material. Dispose of according to local regulations.

7. Handling and Storage

- **Handling:** Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Use only in well-ventilated areas.
- **Storage:** Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials.

8. Exposure Controls/Personal Protection

- **Exposure Limits:** No occupational exposure limits have been established for this product.
 - **Engineering Controls:** Ensure adequate ventilation, especially in confined areas.
 - **Personal Protective Equipment:**
 - **Respiratory Protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
 - **Hand Protection:** Wear protective gloves.
 - **Eye Protection:** Safety glasses with side-shields.
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- **Skin and Body Protection:** Wear suitable protective clothing.

9. Physical and Chemical Properties

- **Appearance:** Viscous liquid, may

