SAFETY DATA SHEET

Fischer-Tropsch (FT) Hot Condensate

SECTION 1  IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<table>
<thead>
<tr>
<th>Trade name</th>
<th>Fischer-Tropsch (FT) Hot Condensate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>FT heavy oil, FT oil, FT paraffin wax</td>
</tr>
<tr>
<td>Use</td>
<td>Research &amp; Development</td>
</tr>
<tr>
<td>Company</td>
<td>Sasol (USA) Corporation - Tulsa Pilot Plant</td>
</tr>
<tr>
<td>Address</td>
<td>1820 N. 161st E. Avenue, Tulsa, OK 74116-4827</td>
</tr>
<tr>
<td>Telephone</td>
<td>CHEMTREC North America Transportation Emergency (24-hr) (800) 424-9300</td>
</tr>
<tr>
<td></td>
<td>CHEMTREC World Wide (703) 527-3887</td>
</tr>
<tr>
<td></td>
<td>Other Emergencies (24-hr) (337) 494-5142</td>
</tr>
<tr>
<td></td>
<td>MSDS and Product Information (8:00am-4:30pm CST) (918) 257-2350</td>
</tr>
<tr>
<td></td>
<td>Health and Safety Information (7:30am-4:00pm CST) (281) 588-3492</td>
</tr>
<tr>
<td>E-mail address</td>
<td><a href="mailto:SasolElectronicSDS@us.sasol.com">SasolElectronicSDS@us.sasol.com</a></td>
</tr>
</tbody>
</table>

SECTION 2  HAZARDS IDENTIFICATION

GHS Hazards

Chronic aquatic toxicity Category 3

LABEL ELEMENTS

| Hazard symbols | None |
| Signal word    | None |
| Hazard statements | H412 Harmful to aquatic life with long lasting effects. |

Precautionary statements

| Prevention     | P273 Avoid release to the environment. |
| Response       | P391 Collect spillage. |
| Disposal       | P501 Dispose of contents/ container to an approved waste disposal plant. |

SECTION 3  COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C7-C40 n-Paraffins</td>
<td>Mixture</td>
<td>82 - 85</td>
</tr>
<tr>
<td>Primary Alcohols (C&gt;10)</td>
<td>Mixture</td>
<td>7 - 10</td>
</tr>
<tr>
<td>Alpha olefins (C&gt;10)</td>
<td>Mixture</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Internal olefins (C&gt;12)</td>
<td>Mixture</td>
<td>&lt;3</td>
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</tbody>
</table>

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.
SAFETY DATA SHEET

Fischer-Tropsch (FT) Hot Condensate

SECTION 4  FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5  FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion NFPA Class IIIB combustible liquid.

Suitable extinguishing media Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit.

Further information Keep containers and surroundings cool with water spray. Prevent further leakage or spillage if safe to do so. Evacuate personnel to safe areas.

SECTION 6  ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Evacuate the area and eliminate all sources of ignition. Use personal protective equipment. Spilled material will solidify. Pick up and arrange disposal without creating dust. Do not flush into surface water or sanitary sewer system.

SECTION 7  HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

Storage/Transport pressure Ambient

Load/Unload temperature Ambient
Fischer-Tropsch (FT) Hot Condensate

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES
Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).

PERSONAL PROTECTIVE EQUIPMENT
Eyes Wear as appropriate: Goggles, Face-shield
Skin Wear suitable protective clothing, gloves and eye/face protection. Wear as appropriate: Impervious gloves
Inhalation When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES
Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid; 20 °C, 1,013 hPa
Colour white milky
Form solid
Odour hydrocarbon-like
Odour Threshold no data available
Flash point 135 °C, 275 °F;
Flammability Upper explosion limit: no data available
Lower explosion limit: no data available
Boiling point/boiling range 65 - 257 °C, 149 - 495 °F;
Melting point/range no data available
Auto-ignition temperature no data available
Decomposition temperature no data available
Flammability (solid, gas) no data available
Vapour pressure no data available
SAFETY DATA SHEET

Fischer-Tropsch (FT) Hot Condensate

Vapour density  no data available
Density  no data available
Specific gravity  0.72
Water solubility  insoluble
Viscosity  no data available
pH  no data available
Evaporation rate  no data available

SECTION 10  STABILITY AND REACTIVITY

Reactivity  Stable at normal ambient temperature and pressure.
Chemical stability  No decomposition if stored and applied as directed.
Conditions to avoid  Keep away from heat and sources of ignition.

Hazardous decomposition products  Carbon dioxide (CO₂)  Carbon monoxide  Flue gas  Aldehydes in the case of incomplete combustion

Materials to avoid  Oxidizing agents
Reducing agents

Hazardous polymerisation  None.

SECTION 11  TOXICOLOGICAL INFORMATION

Additional Remarks  Information given is based on data obtained from similar substances or components of this material.
Acute dermal toxicity  no data available

Acute inhalation toxicity  Acute exposure may result in non-lethal narcotic effects and pose an aspiration hazard.
Acute oral toxicity  LD₅₀ rat: > 2,000 mg/kg

Skin corrosion/irritation  Not irritating
Eye damage/irritation  May cause eye irritation.
Fischer-Tropsch (FT) Hot Condensate

Respiratory or skin sensitization: no data available

Germ cell mutagenicity:
- Genotoxicity in vitro: no data available
- Genotoxicity in vivo: no data available
- Assessment Mutagenicity: no data available

Reproductive toxicity:
- Reproductive toxicity: no data available
- Assessment Reproductive toxicity: no data available
- Teratogenicity: no data available
- Assessment teratogenicity: no data available

STOT - single exposure: no data available

STOT - repeated exposure: no data available

Aspiration toxicity: no data available

Carcinogenicity:
- Assessment carcinogenicity: 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.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Toxicity to fish: no data available

Toxicity to aquatic invertebrates: no data available

Toxicity to algae: no data available

Chronic toxicity to fish: no data available

Chronic toxicity to: no data available
Fischer-Tropsch (FT) Hot Condensate

aquatic invertebrates

Biodegradation
Normal paraffins are removed by volatilization, sorption to sediments/soils and biodegradation.

Bioaccumulation
no data available

Mobility in soil
no data available

Other adverse effects
no data available

SECTION 13  DISPOSAL CONSIDERATIONS

Waste Code
Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.

Disposal methods
Dispose of only in accordance with local, state, and federal regulations. Land disposal of this product is restricted. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Empty containers.
Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

SECTION 14  TRANSPORT INFORMATION

DOT
Not regulated.

IATA
Not regulated.

IMDG
Not regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks
no data available

SECTION 15  REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA Hazards (HCS 1994)
Irritant
SAFETY DATA SHEET

Fischer-Tropsch (FT) Hot Condensate

TSCA Inventory Listing
Components | CAS-No.
--- | ---
Not listed | 

SARA 302 Status
Components | CAS-No. | Weight percent
--- | --- | ---
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification
Non-hazardous substance

SARA 313 Chemical
Components | CAS-No. | Weight percent
--- | --- | ---
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA CERCLA Hazardous Substances (40 CFR 302)
Components | Reportable Quantity | Weight percent
--- | --- | ---
none | | 

INTERNATIONAL REGULATIONS

WHMIS Classification
WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

European Union
Classification according to Regulation (EU) 1272/2008.

Chronic aquatic toxicity, Category 3

Australia. Inventory of Chemical Substances (AICS)
Not listed

Japan. Inventory of Existing and New Chemical Substances (ENCS)
Not listed

Japan. Industrial Safety & Health Law (ISHL) Inventory
Not listed

Canada. Domestic Substances List (DSL) Inventory
Not listed

Canadian Non-Domestic Substance Listing (NDSL)
Not listed

European Inventory of Existing Commercial Chemical Substances (EINECS) Listing
Not listed

Philippines. Inventory of Chemicals / Chemical Substances (PICCS)
Not listed

Korea. Existing Chemicals Inventory (KECI)
Not listed

China. Inventory of Existing Chemical Substances (IECSC)
Not listed

Mexico. National Inventory of Chemical Substances (INSQ)
Not listed
Fischer-Tropsch (FT) Hot Condensate

New Zealand. Inventory of Chemicals (NZIoC) Not listed
Switzerland. Inventory of Notified New Substances (CHINV) Not listed
Taiwan. National Existing Chemical Inventory (NECI) Not listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65
Components none

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard/ Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS®</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>NFPA</td>
<td>1</td>
<td>1</td>
<td>0</td>
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</tbody>
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