



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Superplate II Thread Compound
PRODUCT IDENTIFIER CODE(S): 108250
PRODUCT RECOMMENDED/INTENDED USE: Lubricant
MANUFACTURER/SUPPLIER: Texas Refinery Corp.
ADDRESS: 500 Airport Drive, Mansfield, TX 76063
GENERAL INFORMATION: 817-332-1161
24 HR. EMERGENCY PHONE NUMBER: CHEMTREC 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

GHS Label Elements, Including Precautionary Statements

Emergency Overview

Signal Word None

The product contains no substances which at their given concentration are considered to be hazardous to health.

Appearance Dark Bronze

Physical State Semi-fluid (gel)

Odor Petroleum Oil-Pungent

Precautionary Statements

Prevention None

General Advice None

Storage None

Disposal None

Hazards Not Otherwise Classified (HNOC)

Not applicable

Other Information

Toxic to aquatic life with long-lasting effects

31.5% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS Number | Weight % | Trade Secret |
|---|------------|----------|--------------|
| Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. May contain organic salts of alkali metals, alkaline earth metals, etc. | 74869-21-9 | 60-65 | * |
| Graphite | 7782-42-5 | 10-15 | * |
| Talc | 14807-96-6 | 5-10 | * |
| Limestone | 1317-65-3 | 5-10 | * |
| Calcium fluoride | 7789-75-5 | 2-5 | * |
| Copper | 7440-50-8 | 2-5 | * |
| Antimony, tris(dipentylcarbamo-dithioato-S,S')-(OC-6-11)- | 15890-25-2 | 1-2 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4**FIRST AID MEASURES****Description of Necessary 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 removing all contaminated clothing and shoes.

INHALATION: Remove to fresh air.

INGESTION: Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice.

Most Important Symptoms/Effects, Acute and Delayed

Most Important Symptoms/Effects: No information available

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

Notes to Physician: Treat Symptomatically

SECTION 5**FIRE FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA: Water spray. Carbon dioxide (CO₂). Foam. Dry powder. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a solid water stream as it may scatter and spread fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Burning produces obnoxious and toxic fumes. Heavy metal compounds.

EXPLOSION DATA: Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6**ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Personal Precautions: Use personal protective equipment.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleanup: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface(s) thoroughly.

SECTION 7**HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING: Wear personal protective equipment. Ensure adequate ventilation.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep container tightly closed in a dry and well-ventilated place. Keep in a banded area. Incompatible with strong oxidizing agents, acetylene and vinyl compounds.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION****CONTROL PARAMETERS****EXPOSURE GUIDELINES**

| Chemical Name/CAS | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------|-----------|--|--|
| Graphite (7782-42-5) | - | TWA: 15 mg/m ³ total dust synthetic TWA: 5 mg/m ³ total dust synthetic (vacated) TWA: 2.5 mg/m ³ respirable dust natural (vacated) TWA: 10 mg/m ³ total dust synthetic (vacated) TWA: 5 mg/m ³ | IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³ respirable dust |

| | | | |
|--|----------------------|---|--|
| | | respirable fraction synthetic TWA: 15 mppcf natural | |
| Talc (14807-96-6) | TWA: 2 mg/m3 | (vacated) TWA: 2 mg/m3 | IDLH: 1000 mg/m3 containing no asbestos and <1% quartz TWA: 2 mg/m3 |
| Limestone (1317-65-3) | - | TWA: 15 mg/m3 TWA: 5 mg/m3 (vacated) TWA: 15 mg/m3 (vacated) TWA: 5 mg/m3 | TWA: 5 mg/m3 respirable dust TWA: 10 mg/m3 total dust |
| Calcium fluoride (7789-75-5) | TWA: 2.5 mg/m3 F | TWA: 2.5 mg/m3 F (vacated) TWA: 2.5 mg/m3 | - |
| Antimony, tris(dipentylcarbamodithioato-S,S')-(OC-6-11)-(15890-25-2) | TWA: 0.5 mg/m3 as Sb | TWA: 0.5 mg/m3 Sb (vacated) TWA: 0.5 mg/m3 Sb | IDLH: 50 mg/m3 Sb TWA: 0.5 mg/m3 Sb |
| Copper (7440-50-8) | TWA: 0.2 mg/m3 fume | TWA: 0.1 mg/m3 fume TWA: 1 mg/m3 dust and mist (vacated) TWA: 0.1 mg/m3 Cu dust, fume, mist | IDLH: 100 mg/m3 dust, fume and mist TWA: 1 mg/m3 dust and mist TWA: 0.1 mg/m3 fume |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

APPROPRIATE ENGINEERING CONTROLS

Engineering Measures: Showers
Eyewash stations
Ventilation systems

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: Safety glasses with side-shields.

Skin and Body Protection: Protective gloves. Long sleeved clothing.

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures: When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Semi-fluid (gel)

APPEARANCE: Dark bronze

ODOR: Petroleum Oil-Pungent

ODOR THRESHOLD: No information available

pH: Neutral

MELTING POINT/RANGE: 232°C/450°F

BOILING POINT/BOILING RANGE: <316°C/600.8°F

FLASH POINT: >221°C

EVAPORATION RATE: No data available

FLAMMABILITY (solid, gas): No data available

FLAMMABILITY LIMITS IN AIR (Upper/Lower%): No data available

VAPOR PRESSURE: No data available

VAPOR DENSITY: No data available

SPECIFIC GRAVITY: 1.18

WATER SOLUBILITY: Insoluble in water

SOLUBILITY IN OTHER SOLVENTS: Largely
PARTITION COEFFICIENT (n-octanol/water): No data available
AUTOIGNITION TEMPERATURE: No data available
DECOMPOSITION TEMPERATURE: No data available
VISCOSITY: No data available
FLAMMABLE PROPERTIES: Not flammable
EXPLOSIVE PROPERTIES: No data available
OXIDIZING PROPERTIES: No data available
VOC CONTENT (%): None

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: No data available
CHEMICAL STABILITY: Stable under recommended storage and use conditions.
POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing.
HAZARDOUS POLYMERIZATION: Hazardous polymerization does not occur.
CONDITIONS TO AVOID: Incompatible products.
INCOMPATIBLE MATERIALS: Strong oxidizing agents, acetylene, vinyl compounds.
HAZARDOUS DECOMPOSITION PRODUCTS: None known based on information supplied.

SECTION 11 TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

PRODUCT INFORMATION: None.
INHALATION: None known.
EYE CONTACT: There is no data available for this product.
SKIN CONTACT: Causes mild skin irritation.
INGESTION: Not an expected route of exposure. May be harmful if swallowed.

| Chemical Name | LD ₅₀ Oral | LD ₅₀ Dermal | LC ₅₀ Inhalation |
|---|-----------------------|-------------------------|-----------------------------|
| Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. May contain organic salts of alkali metals, alkali earth metals, etc. | 2280 mg/kg (Rat) | - | - |
| Calcium fluoride | 4250 mg/kg | - | - |

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

SYMPTOMS: No information available.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

SENSITIZATION: No information available.
MUTAGENIC EFFECTS: No information available.
CARCINOGENICITY: Contains no ingredients above reportable quantities listed as a carcinogen.
REPRODUCTIVE TOXICITY: No information available.
STOT- Single Exposure: No information available.
STOT- Repeated Exposure: No information available.
ASPIRATION HAZARD: No information available.

NUMERICAL MEASURES OF TOXICITY- PRODUCT

ACUTE TOXICITY: 31.5% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD₅₀ Oral 2162 mg/kg; Acute toxicity estimate

LC₅₀ Inhalation

Dust/mist 51.4 mg/L; Acute toxicity estimate

Vapor 377 mg/L; Acute toxicity estimate

SECTION 12

ECOLOGICAL INFORMATION

ECOTOXICITY: Toxic to aquatic life with long-lasting effects

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water flea) |
|---|--|--|----------------------------|--|
| Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. May contain organic salts of alkali metals, alkali earth metals, etc. (74869-21-9) | >1001 mg/L | LC ₅₀ 96H: >2000 mg/L (Salmo gairdneri) | - | - |
| Talc (14807-96-6) | - | LC ₅₀ 96H: >100 g/L Semi-static (Brachydanio rerio) | - | - |
| Copper (7440-50-8) | EC ₅₀ 96 h: 0.031 - 0.054 mg/L static (Pseudokirchneriella subcapitata) EC ₅₀ 72 h: 0.0426 - 0.0535 mg/L static (Pseudokirchneriella subcapitata) | LC ₅₀ 96 h: 0.0068 - 0.0156 mg/L (Pimephales promelas) LC ₅₀ 96 h: < 0.3 mg/L static (Pimephales promelas) LC ₅₀ 96 h: = 0.052 mg/L flow-through (Oncorhynchus mykiss) LC ₅₀ 96 h: = 0.112 mg/L flow-through (Poecilia reticulata) LC ₅₀ 96 h: = 0.2 mg/L flow-through (Pimephales promelas) LC ₅₀ 96 h: = 0.3 mg/L semi- static (Cyprinus carpio) LC ₅₀ 96 h: = 0.8 mg/L static (Cyprinus carpio) LC ₅₀ 96 h: = 1.25 mg/L static (Lepomis macrochirus) | - | EC ₅₀ 48 h: = 0.03 mg/L Static (Daphnia magna) |

PERSISTENCE AND DEGRADABILITY: No information available

BIOACCUMULATION: No information available

OTHER ADVERSE EFFECTS: No information available

SECTION 13

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration.

CONTAMINATED PACKAGING: Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste:

Calcium fluoride, Toxic

Antimony, tris(dipentylcarbamodithioato-S,S')-(OC-6-11)-, Toxic

Copper, Toxic

SECTION 14**TRANSPORT INFORMATION**

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING DESCRIPTION: Not regulated
INTERNATIONAL MARITIME ORGANIZATION (IMDG) SHIPPING DESCRIPTION: Not regulated
FREIGHT CLASSIFICATION: Petroleum, lubricating grease (NMFC 155250 SUB 2 CLASS 65)

SECTION 15**REGULATORY INFORMATION****INTERNATIONAL INVENTORIES****Legend**

TSCA- United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL- Canadian Domestic Substances List/Non-Domestic Substances List

US FEDERAL REGULATIONS

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight% | SARA 313-Threshold Values% |
|---|------------|---------|----------------------------|
| Antimony, tris(dipentylcarbamo-dithioato-S,S')-(OC-6-11)- | 15890-25-2 | 1-2 | 1.0 |
| Copper | 7440-50-8 | 2-5 | 1.0 |

SARA 311/312 Hazard Categories:

| | |
|-----------------------------------|----|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA- Reportable Quantities | CWA- Toxic Pollutants | CWA- Priority Pollutants | CWA- Hazardous Substances |
|---|----------------------------|-----------------------|--------------------------|---------------------------|
| Copper | | X | X | |
| Antimony, tris(dipentylcarbamo-dithioato-S,S')-(OC-6-11)- | | X | | |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQ | Extremely Hazardous Substances RQ | RQ |
|---------------|-------------------------|-----------------------------------|--|
| Copper | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

US STATE REGULATIONS

CALIFORNIA PROPOSITION 65: This product does not contain any Proposition 65 chemicals.

US STATE RIGHT-TO-KNOW REGULATIONS

"X" designates that the ingredients are listed on the state right-to-know list

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|----------------------|-------------------|----------------------|---------------------|-----------------|---------------------|
| Graphite | X | X | X | | X |
| Talc | X | X | X | | X |
| Limestone | X | X | X | | X |
| Calcium Fluoride | | | | | X |
| Copper | X | X | X | X | X |

US EPA LABEL INFORMATION

EPA Pesticide Registration Number: Not applicable

SECTION 16**OTHER INFORMATION**

REVISION INDICATOR: New SDS compliant with GHS AND OSHA.

DATE OF REVISION: 04/27/2017

SUPERSEDES: 04/07/2016

NFPA RATINGS: HEALTH:1 FLAMMABILITY:1 INSTABILITY:0 PHYSICAL AND CHEMICAL HAZARDS:-
HMIS RATINGS: HEALTH:1 FLAMMABILITY:1 PHYSICAL HAZARD:0 PERSONAL PROTECTION: X

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