

<b>AVATAR CORPORATION</b>		Date:	05/22/2020
Document Number	SDS-2222222-04	Page	1 of 6
Title:	<b>Avatech™ Mineral Oil Series – Safety Data Sheet CLP</b>		
Document Owner:	N.R.P.	Approved by:	J.P. Roush, M.S.

This document is prepared pursuant to 2015 Global Harmonization System (GHS) and OSHA Hazard Communication (29 CFR 1910.1200) standards. Where proprietary ingredient is shown, the identity may be made available as provided in this standard.

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1. Product Identifier

*Tradename:* **Avatech™ Mineral Oil Series** (see list at end)  
*Code:* 2222222  
*REACH Registration No.:* 01-2119487978-0093

### 1.2. Identified uses / uses advised against

*Identified uses:* Technical grade lubricant, release agent for food, personal care and industrial applications

### 1.3. Supplier details:

*Company/Address:* Avatar Corporation, 500 Central Avenue, University Park, IL 60484 USA  
*Website:* [www.avatarcorp.com](http://www.avatarcorp.com)  
*Email:* [jproush@avatarcorp.com](mailto:jproush@avatarcorp.com)  
*Telephone/Fax:* 708.534.5511 / 708.534.0123  
*Responsible Dept:* Regulatory

### 1.4 Transportation emergency contact:

Chem Tel 800.255.3924

## 2. HAZARDS IDENTIFICATION: (Avatech 113-550 SUS)

### 2.1. Classification of substance or mixture

*Classification according to Regulation (EC) No. 1272/2008 [CLP]:* Not classified

*Classification according to Directive 67/548/EEC or 1999/45/EC:* Not classified

*Adverse effects:* At high temperatures, vapors may be generated which may be considered hazardous at concentrations exceeding 2 mg/m<sup>3</sup>.

### 2.2. Label elements: Not applicable

### 2.3. Other hazards: These substances/mixtures do not meet the PBT/vPvB criteria of REACH, annex XIII.

Prolonged/repetitive skin contact may cause skin defatting or dermatitis; ingestion may have laxative effect.

## 2. HAZARDS IDENTIFICATION: (Avatech 40-112 SUS)

### 2.1. Classification of substance or mixture

*Classification according to Regulation (EC) No. 1272/2008 [CLP]:* Category 1: Aspiration hazard, label: GHS 08, Signal word: Danger

*Classification according to Directive 67/548/EEC or 1999/45/EC:* H304 May be fatal if swallowed and enters airways

*Adverse effects:* At high temperatures, vapors may be generated which may be considered hazardous at concentrations exceeding 2 mg/m<sup>3</sup>.

### 2.2. Label elements: GHS 08, Signal word: Danger



### DANGER

May be fatal if swallowed and enters airways.

### 2.3. Other hazards: These substances/mixtures do not meet the PBT/vPvB criteria of REACH, annex XIII.

Prolonged/repetitive skin contact may cause skin defatting or dermatitis; ingestion may have laxative effect.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Substance

<u>Component</u>	<u>CAS No.</u>	<u>EC No.</u>	<u>% by Wt.</u>	<u>HS Tariff Classification No.</u>
Mineral Oil, NF	8042-47-5	232-455-8	100	2710.19.45
Tocopherol	59-02-9	200-412-2	≤ 0.001	2936.28.00

### 4. FIRST AID MEASURES

#### 4.1. General information:

**Eye:** Flush immediately with large amounts of water. If irritation occurs, call a physician  
**Skin:** Wash exposed area of skin with water. If burned by contact with hot material, cool material as quickly as possible with water. See a physician for burn treatment, irritation or allergic reaction.  
**Ingestion:** If uncomfortable or symptomatic, seek medical assistance promptly.  
**Inhalation:** If adverse effects occur, remove to uncontaminated area. Get medical attention if symptoms persist.

#### 4.2. Most important symptoms and effects, acute and delayed

**Symptoms/injuries:** High vapor concentration may induce headache, nausea, dizziness and respiratory irritation. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

#### 4.3. Indication of any immediate medical attention and special treatment needed: See 4.1 and 4.2.

### 5. FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media:

Dry chemical, carbon dioxide, foam, steam or water fog

**Unsuitable extinguishing media:** Water streams will scatter liquid and spread fire, but may be used to keep fire-exposed containers and surroundings cool.

#### 5.2. Special hazards:

**Fire hazard:** May create dense smoke during combustion

Mild fire hazard when heated above its flash point; material must be preheated before ignition will occur (OSHA Class IIIB).

#### 5.3. Advise for firefighters:

**Firefighting instruction:** Cool unaffected containers and remove to safety.

**Firefighting protection:** Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personnel:** Wear appropriate breathing apparatus, protective clothing gloves and eye/face protection. No smoking. Refer to section 8.

**Emergency procedures:** Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces.

#### 6.2. Environmental precautions

Prevent spills from entering sewers and public waters.

#### 6.3. Containment / Cleanup

**Containment:** Dike around spill; have oil-absorbent materials readily available.

**Cleanup:** Remove mechanically or contain on an absorbent material such as dry sand or earth and dispose of in accordance with current applicable regulations

### 7. HANDLING AND STORAGE

#### 7.1. Handling

No special requirements; observe good industrial hygiene practices.

#### 7.2. Storage

Do not store in open or unlabeled containers. Store away from strong oxidizing agents or combustible material.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

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**Limits:** OSHA PEL – 5 mg/m<sup>3</sup> (oil mist) (1989) (1971)  
 ACGIH TLV-TWA – 5 mg/m<sup>3</sup> (oil mist)  
 ACGIH TLV-STEL – 10 mg/m<sup>3</sup> (oil mist)

**8.2. Exposure controls** Control airborne concentrations below the exposure guidelines. Provide local exhaust or general room ventilation to minimize vapor concentrations. Provide emergency eye wash fountains and safety showers.

**Eye:** Wear protective goggles or face shield if splashing is possible.

**Skin:** Wear protective gloves/clothing

**Inhalation:** Avoid breathing mist. If ventilation is inadequate, use NIOSH/MSHA certified respirator to protect against mist.

**Environmental controls:** Avoid release to the environment. Notify authorities if product enters sewers or public waters.

## 9. CHEMICAL AND PHYSICAL PROPERTIES

### 9.1. Basic physical and chemical properties

<i>Appearance / Odor:</i>	Oily liquid / Odorless
<i>pH:</i>	Not determined
<i>Vapor Pressure:</i>	< 1.0 mmHg @ 20°C (68°F)
<i>Vapor Density (Air=1):</i>	>1
<i>Boiling Point:</i>	Not determined
<i>Melting Point:</i>	Not applicable
<i>Solubility:</i>	Negligible in water (below 0.1%); soluble in hydrocarbons
<i>Specific Gravity (Water=1):</i>	0.818 - 0.880 @ 25°C/25°C (77°F)
<i>Pour Point:</i>	Not applicable

	Saybolt Viscosity, SUS @ 100°F ASTM D 2161	Kinematic Viscosity, cSt@40°C USP <911>	API Gravity @ 60°F ASTM D 1298	Pour Point, oF ASTM D 97	Flash Point, oF ASTM D 92	Saybolt Color ASTM D 156	NSF H1/3H Requirements	NSF Registration No.
Avatech™ 40	30 – 50	6.92 max	28.5 – 46.6	Not determined	300 min	+25 min	Meets	134448
Avatech 45	35 – 55	2.6 – 8.3	28.0 – 40.6	20 max	300 min	+25 min	Meets	Pending
Avatech 55	45 – 65	6.9 – 11.0	28.0 – 40.6	20 max	300 min	+25 min	Meets	134447
Avatech 70	60 – 80	10.8 – 14.6	28.0 – 40.6	20 max	350 min	+25 min	Meets	134459
Avatech 80	70 – 90	13.2 – 16.8	28.0 – 40.6	20 max	350 min	+25 min	Meets	134460
Avatech 90	80 – 100	15.5 – 18.9	28.0 – 40.6	20 max	350 min	+25 min	Meets	143358
Avatech 100	90 – 110	17.7 – 21.0	28.0 – 40.6	20 max	350 min	+25 min	Meets	Pending
Avatech 130	120 – 140	23.9 – 27.1	28.0 – 40.6	20 max	350 min	+25 min	Meets	143362
Avatech 150	140 – 160	27.9 – 31.0	28.0 – 40.6	20 max	400 min	+25 min	Meets	Pending
Avatech 180	170 – 190	34.5 – 36.9	28.0 – 40.6	20 max	400 min	+25 min	Meets	Pending
Avatech 210	200 – 220	38.7 – 42.6	28.0 – 40.6	20 max	400 min	+25 min	Meets	143361
Avatech 350	330 – 360	63.6 – 69.3	28.0 – 40.6	20 max	400 min	+25 min	Meets	143360
Avatech 380	360 – 390	69.3 – 73.1	28.0 – 40.6	20 max	400 min	+25 min	Meets	Pending
Avatech 500	417 – 560	78.7 – 105.7	28.0 – 40.6	20 max	470 min	+25 min	Meets	Pending
Avatech 550	477 – 636	90 – 120	28.0 – 40.6	20 max	470 min	+25 min	Meets	143359

## 10. STABILITY AND REACTIVITY

**10.1. Reactivity** Unknown

**10.2. Chemical Stability** Generally stable

**10.3. Hazardous reactions** Hazardous polymerization will not occur

**10.4. Conditions to avoid** Extreme heat; contact with chlorine, fluorine, and other strong oxidizers and acids

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10.5. Incompatible materials Chlorine, fluorine, and other strong oxidizers and acids

10.6. Hazardous decomposition products Incomplete burning can produce carbon monoxide and/or carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

11.1. Toxicity Data following is based on information from similar products, the ingredients, technical literature, and/or professional experience; Avatar Corporation does not do testing on animals.  
No component of these products present at levels > 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, U.S. Occupational Safety and Health Act, or the International Agency on Research on Cancer (IARC).

*Dermal (rabbits):* PDIS < 4.0/8.0; LD<sub>50</sub> > 2000 mg/kg

*Oral (rats):* LD<sub>50</sub> > 5000 mg/kg

*Eye Irritation (rabbits):* PEIS < 10/110.0

*Skin Irritation:* Not a skin sensitizer when tested

*Carcinogenicity:* EC CLP Note N applies. Full refining history is known and demonstrates non-carcinogenicity.

## 12. ECOLOGICAL INFORMATION

12.1. Toxicity When used and handled according to specifications, these products have no harmful effects according to our experience and the information provided to us.

12.2. Persistence / degradability No data available

12.3. Bioaccumulation potential No data available

12.4. Mobility in soil No data available

12.5. PBT / vPvB assessment These substances/mixtures does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects No data available

## 13. DISPOSAL INFORMATION

13.1. Waste treatment methods Disposal must be in accordance with applicable federal, state, or local regulations. "Empty" drums should not be given to individuals.

## 14. TRANSPORTATION INFORMATION

14.1. General Information Not regulated by U.S. DOT, Canadian TDG, IMO/IMDG, ICAO/IATA, ADR/RID

## 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

*CERCLA Sections 102A/103 Hazardous Substances:* Not reportable

*SARA Title III Section 302 Extremely Hazardous Substances:* Not regulated

*SARA Title III Sections 311/312 Hazardous Categorization:* None

*SARA Title III Section 313:* Not regulated

*U.S. Inventory (TSCA ACTIVE):* Listed on inventory; ACTIVE

*OSHA Hazard Communication Standard:* Listed by ACGIH, OSHA.

*WHMIS Controlled Product Classification:* Not listed

*Regulation (EC) 1907/2006 as amended:* Compliant

*Regulation (EC) 1272/2008 as amended:* Compliant

*Directive 1999/45/EC as amended:* Compliant

*Directive 67/548/EEC as amended:* Compliant

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## FOOD CONTACT STATUS

FDA 21 CFR 178.3620(b), 573.680:

*Kosher Certification:*

15.2. Chemical safety assessment

Compliant

Compliant

Incomplete

## 16. OTHER INFORMATION

This material safety data sheet and the information it contains are offered in good faith as accurate. We have reviewed any information contained in this data sheet, which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use product(s) safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

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\*Avatech™ Series Technical Mineral Oil SDS covers the products below including, but not limited to:

Avatech 40	Avatech 165	Avatech 340
Avatech 40 LU	Avatech 170	Avatech 345
Avatech 45	Avatech 175	Avatech 350
Avatech 45HS	Avatech 180	Avatech 350C
Avatech 45PO	Avatech 185	Avatech 355
Avatech 50	Avatech 190	Avatech 360
Avatech 55	Avatech 195	Avatech 365
Avatech 55 H	Avatech 200	Avatech 370
Avatech 55KT	Avatech 200PO	Avatech 375
Avatech 60	Avatech 205	Avatech 380
Avatech 65	Avatech 210	Avatech 385
Avatech 70	Avatech 210PO	Avatech 390
Avated 70KT	Avatech 215	Avatech 395
Avatech 70 LP	Avatech 220	Avatech 400
Avatech 70R	Avatech 225	Avatech 405
Avatech 75	Avatech 230	Avatech 410
Avatech 80	Avatech 235	Avatech 415
Avatech 80AM	Avatech 240	Avatech 420
Avatech 80PO	Avatech 245	Avatech 425
Avatech 85	Avatech 250	Avatech 430
Avatech 90	Avatech 255	Avatech 435
Avatech 95	Avatech 260	Avatech 440
Avatech 100	Avatech 265	Avatech 445
Avated 100AM (with amber coloring)	Avatech 270	Avatech 450
Avated 100HS	Avatech 275	Avatech 455
Avatech 105	Avatech 280	Avatech 460
Avatech 110	Avatech 285	Avatech 465
Avatech 115	Avatech 290	Avatech 470
Avatech 120	Avatech 295	Avatech 475
Avatech 125	Avatech 300	Avatech 480
Avatech 130	Avatech 305	Avatech 485
Avatech 135	Avatech 310	Avatech 490
Avatech 140	Avatech 315	Avatech 495
Avatech 145	Avatech 320	Avatech 500
Avatech 150	Avatech 325	Avatech 500DI
Avatech 155	Avatech 330	Avatech 500USL
Avatech 160	Avatech 335	Avatech 550

## Revision History

Date	Revision No.	Purpose	Authorized By
06/20/2014	01	Initial	J.P. Roush, M.S.
05/30/2017	02	Add series properties	J.P. Roush, M.S.
08/24/2018	03	Added REACH Number and Aspiration Danger Information for 40-112 SUS.	J.P. Roush, M.S.
10/03/2019	04	Review and add list of Avatech products	J.P. Roush, M.S.
05/22/2020	05	Added ACTIVE to TSCA	J.P. Roush, M.S.

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