

SAFETY DATA SHEET - COVER PAGE

Standard GHS or REACH/EU Compliant SDS begins on the following page.
This page is provided to customers for their assistance and is not part of the Standard Safety Data Sheet.

| | |
|---------------------------------------|--|
| Product: AmpCool AC-220 | Manufacturer: Engineered Fluids, Inc. 4917 Profit Drive, Tyler, TX 75707 USA +1-725-281-1921 |
|---------------------------------------|--|

General Description: AmpCool AC-220 is a heat transfer fluid made for cooling electrical components. It's made from a nontoxic, biodegradable synthetic hydrocarbon. .

Here is a Quick Guide to Important Information Contained in the SDS:

| Characteristic | AC-220 | SDS Section |
|---|---|---------------------|
| Toxicity | Nontoxic to Humans | Section 11 |
| Handling | Use Personal Protective Equipment | Section 7.1 + 8.2.2 |
| In Case of Spills | Treat as a biodegradable light oil | Section 6 |
| In case of Fire | AC-220 is fire-resistant but will burn. Treat as a light hydrocarbon oil. | Section 5 |
| Transportation | Not Regulated | Section 14 |
| Biodegradation | Biodegradable | Section 12.2 |
| WGK - assergefährungsklasse WHC - Water Hazard Class | WGK =1 (Low Hazard) | Section 15 |

Emergency Telephone Number: +1-352-323-3500 Available 24 hours
Factory Telephone Number: +1-725-218-1981 Available 8-5 CST

Clarification Note to Hazard Statement (Section 2): To provide practical and compliant health safety warnings under the GHS Communications and REACH Standards, Engineered Fluids has provided these additional clarifying statements to assist our users in fully understanding the safety risks posed by our products.

The GHS Communication Standard requires that all hydrocarbon based chemicals be designated a Category 1 Aspiration Hazard if they have a kinematic viscosity ≤ 20.5 mm²/s @40 C. This includes products like our Dielectric Coolants, regardless of all other characteristics (including their biodegradation, non-toxicity, and food grade certification)

Some Engineered Fluids' products have a kinematic viscosity ≤ 20.5 mm²/s, measured at 40 C, and therefore must be labeled as a Aspiration Hazard to comply with GHS Communications standards, even though this safety statement does not correctly describe the risk posed by use of the products.

These products do not pose a toxicity risk if small amounts are swallowed or ingested. However, the standardized wording does not make this differentiation clear and requires the statement "swallowed and enters airways," even though there is little health risk posed by swallowing.

AC-220 has a very low vapor pressure, thus there is no inhalation hazard for fumes or vapors within the operating temperature range.

The most probable hazard related to aspiration posed by AC-220 is the inhalation of a "mist" of the product. The definition of a "mist" for the purposes of this SDS is the creation of product particles suspended in air which are created by spraying the product at high pressure through a small orifice.

Contact Engineered Fluids, Inc. for more information.

AmpCool AC-220

Safety Data Sheet

COMBINED GHS and REACH SDS according to the following :
REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 and Ref: CSSS-TCO-010-155483
OSHA Hazard Communication Standard (29 CFR 1910.1200 - GHS Rev 7, May 2024)

Issue Date: 20251001

Revision Date: 12-Jan-26

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product identifier

Product form : Mixture
Product name : AmpCool AC-220
Additional identification : **Error! No document variable supplied.**

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Electrically Insulating Heat Transfer Fluid

1.2.2. Uses advised against

Restrictions on use : For professional use only

1.3. Details of the supplier of the safety data sheet

Supplier

Engineered Fluids, Inc.
4917 Profit Drive
Tyler, TX 75707 USA
+1-725-218-1981
support@engineeredfluids.com

E.U. Only Representative:

1.4. Emergency telephone number +1-352-323-3500

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SECTION 2: Hazards identification


2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard, Category 1 H304

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Full text of H- and EUH-statements: see section 16

| Symbol | Signal Word | Hazard | Hazard statements |
|--|---------------------------------------|---------------------------------------|---|
|  | Error! No document variable supplied. | Error! No document variable supplied. | Error! No document variable supplied. |
| | | H304 | May be fatal if swallowed and enters airways. |

Precautionary statements (CLP)

PREVENTION:

- P261: Avoid breathing mist / vapors.
- P271: Use only outdoors or in a well-ventilated area.

RESPONSE:

- P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P312: Call a POISON CENTRE or doctor/physician if you feel unwell.
- P331: Do NOT induce vomiting.

STORAGE:

- P405: Store locked up.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
 This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
 Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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SECTION 3: Composition / information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Chemical Name | Registration No. | CAS No. | EC No. | Concentration | Classification | Specific Concentration limits |
|----------------------------------|-----------------------|-------------|-------------|---------------|-------------------------|-------------------------------|
| 1-Dodecene, Dimer Hydrogenated | 01-0000016387-64-0006 | 151006-61-0 | 417-060-2 | 89.7 | H304 | N/A |
| Synthetic Ester Base Oil | N/A | Proprietary | Proprietary | 10.0 | Not Classified | N/A |
| 2,6-Di-tert-butyl-4-methylphenol | | 128-37-0 | 204-881-4 | 0.3 | Aquatic Chronic 4, H413 | N/A |
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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a poison center or a doctor if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
- First-aid measures after skin contact : After contact with skin, immediately remove contaminated clothing, and wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

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

- Symptoms/effects after ingestion : Risk of lung oedema.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic fumes may be released. On combustion, forms: carbon oxides (CO and CO₂).

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Use only in a well-ventilated area.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves should be used. These should be resistant to aliphatic hydrocarbons, with a nitrile rubber coating of at least 0.12 mm thickness. These gloves have a typical measured breakthrough time of >300 minutes. Gloves should be inspected and changed when wear, tearing, punctures or chemical saturation is evident.

8.2.2.3. Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------|---|
| Physical state | : Liquid |
| Colour | : clear. |
| Odour | : Slight hydrocarbon. |
| Odour threshold | : Not available |
| Melting point | : -65 C |
| Freezing point | : -65 C |
| Boiling point | : >330C |
| Flammability | : Not flammable (Combustible, type III) |
| Lower explosion limit | : 0.5% calculated |
| Upper explosion limit | : 6.5% calculated |
| Flash point | : 235 C |

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| | |
|---|---|
| Auto-ignition temperature | : 350 °C |
| Decomposition temperature | : 350 °C |
| pH | : Not applicable |
| Viscosity, Kinematic, cSt.@ 40C | : 13.3 |
| Viscosity, dynamic, cP @ 40C | : 10.8 |
| Solubility | : insoluble in water. Water: ≤ 90 ppm (20°C) |
| Partition coefficient n-octanol/water (Log Kow) | : >4.82@20C |
| Vapour pressure at 20°C, kPA | : 0.01 |
| Vapour pressure at 50°C, kPA | : Not available |
| Density, g/cc | : 0.8 |
| Relative density | : 0.8 |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid high temperatures. Heat or source of heat. Incompatible materials.

10.5. Incompatible materials

Oxidising agents.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified

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Acute toxicity (dermal) : Not classified
 Acute toxicity (inhalation) : Harmful if liquid is inhaled.

| AmpCool AC-220 | |
|--------------------|---------------|
| LD50 oral rat | > 10000 mg/kg |
| LD50 dermal rabbit | > 10000 mg/kg |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology – general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Not rapidly degradable

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| AmpCool AC-220 | |
|--------------------------|--------------|
| LC50 96h - Fish [1] | > 10000 mg/l |
| EC50 48h - Crustacea [1] | > 10000 mg/l |
| EC50 72h - Algae [1] | > 1000 mg/l |

12.2. Persistence and degradability

| AmpCool AC-220 | |
|-------------------------------|--------------------------|
| Persistence and degradability | Inherently Biodegradable |

12.3. Bioaccumulative potential

| AmpCool AC-220 | |
|---|-------------------------------|
| Partition coefficient n-octanol/water (Log Kow) | >4.82@20C |
| Bioaccumulative potential | No bioaccumulation potential. |

12.4. Mobility in soil

No additional information available

2.5. Results of PBT and vPvB assessment

| AmpCool AC-220 | |
|--|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII | |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number or ID number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|--|---|
| Reference code | Applicable on | Entry title or description |
| 3(b) | AmpCool AC-220 | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | 3,5-Bis(1,1-Dimethylethyl)-4-hydroxy benzene propanoic acid branched alkyl (C=7-9) ester - | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK=1 Low Harzard
- Storage class (LGK, TRGS 510) : LGK 10 - Combustible liquids.

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| | | | | | |
|---------------------|----------|---------|----------|----------|-----------|
| Joint storage table | : LGK 1 | LGK 2A | LGK 2B | LGK 3 | LGK 4.1A |
| | LGK 4.1B | LGK 4.2 | LGK 4.3 | LGK 5.1A | LGK 5.1B |
| | LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C |
| | LGK 6.1D | LGK 6.2 | LGK 7 | LGK 8A | LGK 8B |
| | LGK 10 | LGK 11 | LGK 12 | LGK 13 | LGK 10-13 |

- Joint storage not permitted for : LGK 1, LGK 2A, LGK 5.1A, LGK 6.2, LGK 7.
- Joint storage with restrictions permitted for : LGK 4.1A, LGK 4.2, LGK 4.3, LGK 5.1B, LGK 5.1C, LGK 5.2.
- Joint storage permitted for : LGK 2B, LGK 3, LGK 4.1B, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

- ABM category : Not determined
- SZW-lijst van kankerverwekkende stoffen : None of the components are listed
- SZW-lijst van mutagene stoffen : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Switzerland

- Storage class (LK) : LK 6.1 - Toxic materials

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |

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| Abbreviations and acronyms: | |
|------------------------------------|--|
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements: | |
|--|---|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Aquatic Chronic 4 | Hazardous to the aquatic environment – Chronic Hazard, Category 4 |
| H304 | Aspiration hazard, Category 1 |
| H413 | May cause long lasting harmful effects to aquatic life. |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.