Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier
Material Name: Dielectric Solvent DS-100

1.2 Relevant identified uses of the substance or mixture and uses advised against
Product Uses:

a) Removal of Fluids AmpCool®, BitCool ®, ElectroCool®, VoltCool® Dielectric Coolants from electronic devices.
b) General contaminants cleaning of circuit boards and electronic devices

Uses advised against: None.

1.3 Details of the supplier of the substance or mixture

Company Name:	Chemfoundry, Inc.
Company Address:	4548 Cantina Drive Tyler, TX 75708
Telephone:	+1-281-766-4501
Emergency Telephone:	**Call Infotrac, Inc., 1-352-323-3500**
Email:	support@engineeredfluids.com
Company Contact Name:	David Sundin

2. Hazard(s) Identification

2.1 Classification of the substance or mixture

6 EC or 1999/45/EC: Not classified as dangerous under EC criteria.

2.2 Label elements

GHS08 Health hazard

Asp. Tox. 1 *H304* *May be fatal if swallowed and enters airways.*

GHS07

Skin Irrit. 2 *H315* *Causes skin irritation.*

Skin Sens. 1	*H317*	*May cause an allergic skin reaction.*
STOT SE 3	*H336*	*May cause drowsiness or dizziness.*
Flam. Liq. 4	*H227*	*Combustible liquid.*

GHS07 GHS08

Signal word: Danger
Hazard-determining components of labeling:
Distillates (petroleum), hydrotreated light
Citrus Terpene

Hazard statements
Combustible liquid.
Causes skin irritation.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.

Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing fume/gas/mist/vapors/spray.
Wear protective gloves/eye protection/face protection

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting
In case of fire: Use alcohol-resistant foam, dry chemical or carbon dioxide for fire extinction.
Store in an access-controlled area
Dispose of contents/container in accordance with local/national/international regulations.

Classification system: HMIS
Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings 

(scale 0 - 4)

2.3 Other hazards
None.

3. Composition/Information on Ingredients

3.1 Substance:
Chemical characterization: Mixtures
Description: Mixture of the substances listed below.

CAS 64742-47-8 Distillates (petroleum), hydrotreated light 80-90%
H227; H304; H315; H227

CAS 68647-72-3 Citrus Terpene 10-20%
H226; H304; H315; H317; H400; H410

4. First Aid Measures

4.1 Description of first aid measures
After inhalation: Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Give large amounts of water. If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed
No adverse effects expected.

4.3 Indication of any immediate medical attention and special treatment needed
No special treatment required.

5. Fire Fighting Measures

5.1 Extinguishing media
Carbon dioxide, sand, dry powder, extinguishing powder suitable for Class B.
Do not use water jets.

5.2 Special hazards arising from the substance or mixture
None.

5.3 Advice for fire fighters
No special measures required

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Spilt product constitutes a slip hazard. Avoid contact with skin and eyes.

6.2 Environmental precautions
Do not contaminate any lakes, streams, ponds, groundwater or soil. Avoid flushing into drains. In the event of a large spillage contain product as thoroughly as possible and dispose of in accordance with local regulations.

6.3 Methods and material for containment and cleaning up
Soak up spilt material with absorbent granules for disposal.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

7. Handling and Storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion of at the workplace.
Prevent formation of aerosols or spay mists
Avoid eye and prolonged skin contact.

7.2 Conditions for safe storage, including any incompatibilities
No special precautions required.
Store indoors at temperatures between 8C and 50C.

7.3 Specific end use(s)
Exposure to air should be minimized. Opened containers should be properly resealed and stored away from the elements.

8. Exposure Controls/ Personal Protection

8.1 Control parameters
No relevant control parameters.

8.2 Exposure controls
Eye washes should be available for emergency use.

8.3 Respiratory protection: In case of areas of poor ventilation, use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

8.4 Skin protection: Wear gloves and clothing impervious to saturation.

8.5 Hand protection: Wash hands after use. For prolonged or repeated skin contact, gloves are recommended. The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

8.6 Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

8.7 Eye protection: If splashes are likely to occur wear googles or safety glasses with side shields.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form:	Liquid
Color:	Colorless
Odor:	Mild Citrus
Odor threshold:	Not determined.
pH-value @ 20 °C (68 °F):	Not determined
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	213 °C (415 °F)
Flash point:	64 °C (147 °F)
Ignition Temperature:	210 °C (410°F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self igniting.
Danger of explosion:	Not determined.
Explosion limits:	
Lower:	0.5 Vol %
Upper:	6.5 Vol %
Vapor pressure @ 20 °C (68 °F):	0.30 mm Hg
Density @ 20 °C (68 °F):	0.811 g/cm3 (6.76 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity, Dynamic @ 20 °C:	1 mPas
Kinematic:	Not determined
Solvent content: Organic solvents:	100.0 %
Other information VOC content	811 g/liter

9.2 Other information

Not applicable.

10. Stability and Reactivity

10.1 Reactivity
Product is stable under normal conditions of use.

10.2 Chemical stability
Product is stable under normal conditions of use.

10.3 Possibility of hazardous reactions
Data not available.

10.4 Conditions to avoid
Avoid temperatures >200°C.

10.5 Incompatible materials
Strong oxidizing agents.

10.6 Hazardous decomposition products
Carbon oxides.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity:
LD / LC50 values that are relevant for classification:
64742-47-8 Distillates (petroleum), hydrotreated light
Oral LD50 >5,000 mg/kg (rat)
Dermal LD50 >2,000 mg/kg (rabbit)
Primary irritant effect: on the skin: No irritant effect.
on the eye: No irritating effect.

Sensitization: Sensitization possible through skin contact.
Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)
None of the ingredients are listed.

NTP (National Toxicology Program)
None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed.

Ecotoxicological effects based on knowledge of similar substances.

12. Ecological Information

12.1 Aquatic Toxicity
No further information is available

12.2 Persistence and degradability
No further information is available

12.3 Bioaccumulative potential
No potential for bioaccumulation.

12.4 Mobility in soil
No further information is available

12.5 Results of PBT and vPvB assessment
The product does not meet criteria for toxicity which requires further assessment. It is not considered PBT or vPvB.

12.6 Other adverse effects
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms.

13. Disposal Considerations

13.1 Waste treatment methods
Product and packaging must be disposed of in accordance with local and national regulations. May be incinerated, reclaimed by standard methods or blended with other used hydrocarbons.

Not classified as hazardous under air (ICAO/IATA), sea (IMDG), road (ADR) or rail (RID) regulations. Must not be disposed of together with household garbage.

Do not allow product to reach sewage system.

14. Transport Information

14.1 UN number (Harmonized Transport Code)
2710194545

14.2 UN proper shipping name
Cleaning solvent

14.3 Transport hazard class
Not relevant.

14.4 Packing group
Not relevant.

14.5 Environmental hazards
Product contains environmentally hazardous substances:
Citrus Terpene; Distillates (petroleum) hydrotreated light.

14.6 Special precautions for user
None.

15. Regulatory Information

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

This product is exempt from REACH registration.

Sara · Section 355 (extremely hazardous substances):
None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.

TSCA (Toxic Substances Control Act):
All ingredients are listed.

Proposition 65 · Chemicals known to cause cancer:
None of the ingredients is listed. ·

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed. ·

Chemicals known to cause developmental toxicity:
None of the ingredients is listed. ·

Carcinogenic categories
EPA (Environmental Protection Agency):
None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
Corrosive to eyes

GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

GHS07 GHS08

Signal word *Danger*

Hazard-determining components of labeling:

Distillates (petroleum), hydrotreated light
Citrus Terpene

Hazard statements

H227 Combustible liquid.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing fume/gas/mist/vapors/spray.

P280 Wear protective gloves/eye protection/face protection

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting

P370+P378 In case of fire: Use alcohol-resistant foam, dry chemical or carbon dioxide for extinction.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national/international regulations.

Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

16. Other Information

16.1 Changes from last issue:
Original Version 1.0
20101227 Revised Sec 3, Sec 1 December 27, 2018 DWS