

散熱膏 HTS-1.5G

適用於功率晶體 IC, 整流器等任何需快速散熱

保護之電機部品

密度高.不垂流.不乾枯.傳熱功能高達 0.9w/mk

破壞電壓可達 42KV/mm, 擴散率低至 0.4%

重量損失小到 100°C, 96小時後僅剩1.4%



勝特力材料 886-3-5753170

勝特力电子(上海) 86-21-54151736

勝特力电子(深圳) 86-755-83298787

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SAFETY DATA SHEET

PAGE: 1 of 3

REVISION DATE: 05/05/2000

REF: HTS

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: SILICONE HEAT TRANSFER COMPOUND
Product code: HTS
Supplier: ELECTROLUBE
H.K. Wentworth Ltd.,
Wentworth House, Blakes Road,
Wargrave, Berkshire, RG10 8AW, United Kingdom.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

Chemical Name	CAS-No	EC-No	Class	Weight %
NON HAZARDOUS CONSTITUENTS				100

3. HAZARDS IDENTIFICATION

Most important hazards: Non hazardous
Specific hazards: Solvents may degrease the skin. Prolonged skin contact may cause skin irritation and/or dermatitis. Contact with eyes may cause irritation.

4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance.
Inhalation: Move to fresh air in case of accidental inhalation of vapours.
Skin contact: Wash off with soap and plenty of water.
Eye contact: Flush eye(s) immediately with plenty of water. If eye irritation persists, consult a specialist.
Ingestion: Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Extinguish with waterspray, dry chemical or alcohol foam
Extinguishing media which must not be used for safety reasons: Not applicable
Specific hazards: Standard procedure for chemical fires
Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary
Specific methods: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Not applicable
Environmental precautions: No special environmental precautions required
Methods for cleaning up: Dilute with water. Wipe up with absorbent material (e.g. cloth, fleece)

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7. HANDLING AND STORAGE

Handling: When using, do not eat, drink or smoke. Avoid contact with the skin and the eyes.
Storage: Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: **National occupational exposure limits:**
HSC(EH40)

NON HAZARDOUS CONSTITUENTS

Engineering measures: Ensure adequate ventilation

Personal protection equipment:

- **Respiratory protection:** No personal respiratory protective equipment normally required
- **Hand protection:** not required under normal use
- **Eye protection:** not required under normal use
- **Skin and body protection:** not required under normal use

Hygiene measures: When using, do not eat, drink or smoke

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	paste	* BASE OIL
Colour:	white	
Odour:	none	
Boiling point/range:	> 100	* °C
Melting point/range:	1970 (filler)	°C
Flash point:	>100	* °C
Relative density:	(20 °C)	>= 2.1
Bulk density:	2100	kg/m3
Solubility:		
Water solubility	insoluble	(g/l)

10. STABILITY AND REACTIVITY

Stability: Stable.
Conditions to avoid: No conditions to be specially mentioned.
Materials to avoid: strong acids and oxidizing agents
Hazardous decomposition products: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not applicable
Local effects: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea
Sensitization: Not applicable
Long term toxicity: No persistent or cumulative effects were observed
Chronic toxicity: Not applicable

12. ECOLOGICAL INFORMATION

Mobility:
Persistence and degradability: Readily biodegradable, according to appropriate OECD test
Bioaccumulation: Not applicable
Ecotoxicity effects: Not applicable

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13. DISPOSAL CONSIDERATIONS

- Waste from residues / unused products:** No special precautions required. In accordance with local and national regulations.
- Contaminated packaging:** Offer rinsed packaging material to local recycling facilities

14. TRANSPORT INFORMATION

Proper shipping name not a dangerous substance as defined in the above regulations

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 90/492/EEC

- Contains:
- Symbol(s):

R-phrase(s):

S-phrase(s): S2 - Keep out of reach of children. S3 - Keep in a cool place.

16. OTHER INFORMATION

Revision number: 4

Further information: CN no. 34039990
Contact Name: Carolyn Booth
Department: Technical

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

Technical Data Sheet



PRODUCT DESCRIPTION:	Silicone Heat Transfer Compound	DATE:	03/97
PRODUCT CODE:	HTS	PAGES:	1

PRODUCT DESCRIPTION

Silicone Heat Transfer Compound is a metal oxide filled silicone oil providing an extremely efficient and exceptionally thermally conductive compound which will operate over a wide temperature range. Electro-lube Heat Transfer Compound is recommended where the efficient and reliable thermal coupling of electrical and electronic components is required or between any surface where thermal conductivity of heat dissipation is important.

A full range of heat transfer products are available from Electrolube. This range includes non-silicone based pastes (HTC), a RTV rubber (TCR), an adhesive epoxy (TBS) and an epoxy based potting resin (ER2074). A even higher thermally conductive paste is also available, order code HTSP, for special applications where thermal management is critical.

FEATURES

- * Excellent non-creep characteristics.
- * Wide operating temperature range with low evaporation weight loss.
- * Excellent thermal conductivity even at high temperatures.
- * Easy to handle, economic in use and low in toxicity.

APPLICATION

Apply to the base and mounting studs of diodes, transistors, thyristors, heat sinks, silicone rectifiers and semi-conductors, thermostats, power resistors and radiators.

PROPERTIES

Colour:	White
Base:	Silicone Oil
Thermo-conductive Components:	Powdered Metal Oxides
Density @ 20°C:	2.10 g/cm ³
Temperature Range:	-100°C to +200°C
Thermal Conductivity:	0.9 W/mK
Weight Loss after 96 hours @ 100°C:	0.84%
Permittivity @ 10 ⁶ Hz:	4.9
Specific Resistance:	1 x 10 ¹⁵ Ohms/cm
Dielectric Strength:	18 kV/mm
Penetration:	220-270

PACKAGING

20 ml Syringe
35 ml Luer Lock Syringe
1 Kg Bulk

ORDER CODE

HTS20S
HTS35SL
HTS01K

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