

PRODUCT SAFETY DATA SHEET
According to EC directive 91/155/EEC and subsequent amendments



Product Name: STC640

Date: June 2008

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade Name	STC 640 Thermal Interface Material
Company	Akasa (Europe) Ltd. Unit 31, Metropolitan Centre, Taunton Road, Greenford, Middlesex. United Kingdom. UB6 8UQ Tel: +44 (0)20 8578 0055 Fax: +44 (0)20 8578 1122
Service	Akasa (Asia) Corp. Tel: +886 (0) 2 2999 6289 Akasa (Europe) Ltd. Tel: +44 (0)20 8578 0055
Emergency Phone Number	Adrian Young UK (24) +44 (0)7718539514
Use of substance/preparation	Electrical & Electronics Applications (Silicone Compound) Thermal conductive compound material

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization	Dimethyl siloxane 10.0~15.0 Wt% Metal Oxide > 50.0 Wt% Metal Powder 25.0~30.0 Wt%
Hazardous Ingredients	

Product Name: STC640

Date: June 2008

3. HAZARDS IDENTIFICATION

The principle hazards of the product as supplied are :-
Very toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment .

4. FIRST AID MEASURES

On contact with eyes	Immediately flush with water
On skin contact	No first aid should be required
If inhaled	No first aid should be required
On ingestion	No first aid should be required

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Carbon Dioxide, foam, dry powder or fine water spray. Water can be used to cool fire exposed containers.
Unsuitable extinguishing media	None Known
Hazards during fire fighting	None Known
Special protective equipment/procedures	A self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after fire is out. Determine the need to evacuate or isolate the area according to your local emergency plan.

Product Name: STC640

Date: June 2008

Hazardous combustion products	Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Metal products.
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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear proper protective equipment.
Precautions to protect the environment	Prevent from spreading or entering into drains , ditches or rivers by using sand , earth or other appropriate barriers.
Methods for cleaning up	Scrape up and place in a container fitted a lid. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

Advice on safe handling	Avoid Eye contact. General ventilation is required.
Advice on storage	Do not store with oxidising agents. Keep container closed and store away from water or moisture.
Specific uses	Refer to Technical data sheet available on request.
Unsuitable packaging materials	None known.

Product Name: STC640

Date: June 2008

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Ventilation : Refer section 7 (above)
Exposure controls for hazardous components	
<u>Personal protection equipment</u>	
Respiratory protection	Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded . A filtering half mask is recommended. Recommended Filter type: B. The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.
Hand protection	Gloves are not normally required.
Eye protection	Safety glasses should be worn.
Skin protection	Protective equipment is not normally necessary
Hygiene measures	Exercise good industrial hygiene practise. Wash after handling ,especially before eating. Drinking or smoking
Environmental exposure controls	Refer to section 6 & 12
Additional information	These precautions are for room temperature handling. Use at Elevated temperature or aerosol / spray applications may be added precautions.

Product Name: STC640

Date: June 2008

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form Grease Colour Gary Odour Slight odour
Important health, safety & environmental information	
Explosive properties	No
Specific gravity	2.10 > 25
Oxidizing properties	No

The above information is not intended for use in preparing product specification.
Contact Akasa for more details.

Product Name: STC640

Date: June 2008

10. STABILITY AND REACTIVITY

Stability	Stable under normal usage conditions.
Conditions to avoid	None established.
Materials to avoid	Can react with strong oxidising agents.
Hazardous decomposition products	This material contains zinc oxide. Zinc oxide produced adverse developmental effects when fed to rats at 200/mg/kg/day for 21 days prior to mating and throughout pregnancy. However, no adverse effects were observed at a dose of 100 mg/kg/day for the same duration.

11. TOXICOLOGICAL INFORMATION

On contact with eyes	May cause temporary discomfort.
On skin contact	No adverse effects are normally expected.
If inhaled	No adverse effects are normally expected
On ingestion	No adverse effects are normally expected

¹ Based on product test data

² Based on test data from similar products

Product Name: STC640

Date: June 2008

12.ECOLOGICAL INFORMATION

<p><u>Environmental fate and distribution</u></p> <p align="center">Solid material , insoluble in water.</p>
<p><u>Ecotoxicity effects</u></p> <p align="center">Very toxic to aquatic organisms and may cause long – tern adverse effects in the aquatic environment . However due to the physical form and the water insolubility of the bioavailability is negligible.</p>
<p><u>Fate and effects in waste water treatment plants</u></p> <p align="center">No adverse effects on bacteria are predicted.</p>

13.DISPOSAL CONSIDERATIONS

Product disposal	This material must be disposed of as hazardous waste. According to the European waste catalogue Waste codes are not specific , application specific. Waste codes should be assigned by the user preferably in discussion with the waste disposal authorities.
Packaging disposal	Dispose of in accordance with local regulations, Waste codes should be assigned by the user preferably in discussion with the waste disposal authorities' .

14.TRANSPORT INFORMATION

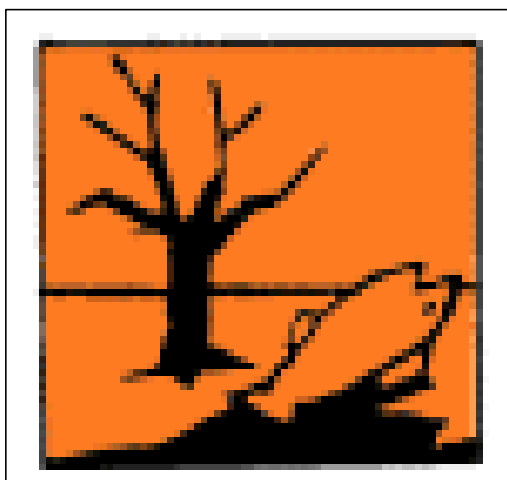
Road/Rail (ADR/RID)	Not subject to DOT
Proper shipping name	
Class	
Packing group	
Labels	
Sea treatment (IMDG)	Not Subject to IMDG code
Air transport (IATA)	Not Subject to IATA <i>regulations</i>

Product Name: STC640

Date: June 2008

15.REGULATORY INFORMATION

<p><u>Labelling according to EEC Directive</u></p> <p>Symbol</p>	<p>N Dangerous for the environment. Substances and preparations which, were they to enter into the environment, would present or might present an immediate or delayed danger for one or more components of the environment.</p>
<p>R-phrases</p>	<p>R50/53 (percentage by weight of each substance) Very toxic to aquatic organisms may cause long –term adverse effects in the aquatic environment.</p>
<p>S-phrases</p>	<p>S57 Use appropriate container to avoid environmental contamination S60 This material and its container must be disposed of as hazardous waste</p>
<p><u>National legislation/regulations</u></p> <p>Ozone depleting chemicals</p>	<p>No ozone depleting chemicals are present or used in manufacture.</p>
<p><u>Status</u></p> <p>EINECS</p>	<p>All ingredients listed or exempt.</p>
<p>TSCA</p>	<p>All chemicals substanes in this areincluded on or exempted from listing on the TSCA Inventory of chemical substances.</p>



Product Name: STC640

Date: June 2008

16.OTHER INFORMATION

This product safety datasheet was prepared in compliceance with commision directive **91/155/EEC , 67/548/EEC and 1999/45/EC**

As well as their relevant amendeents , on the approximation of the law , regulations & administrative provisions relative to the classification , packging and labelling of dangerous substances & preparations.

All information and instruction provided in this Satey DataSheet (SDS) are based on the current state of the sciencetific and technical knowledge at the date indicated on the SDS. Should the exsistance of such defect not be detectable considering the current state of scientific and technical knowlesdge .