According to EC directive 91/155/EEC and subsequent amendments



Product Name: AK-455 Date: Jun 2021

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Trade Name	
Trade Name	Akasa ® AK-455 Thermal Interface Material
	ST801
Company	Akasa (Asia) Corp. Suite 5,13F, No.260, Sec.2, New Taipei Blvd., Sanchong District, New Taipei City 24158, Taiwan (R.O.C.) Tel +886 2 2999 6289 Fax +886 2 2999 6228
	Fax +880 2 2999 0228
Service	Akasa (Asia) Corp. Tel: +886 (0) 2 2999 6289
	Akasa (Europe) Ltd. Tel: +44 (0)20 8578 0055
Use of substance/preparation	Electrical & Electronics Applications (Silicone Compound) Thermal conductive compound material

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization		
	Silicone Compounds	50%
	Carbon Compounds	20%
	Metal Oxides Compounds	30%
Hazardous Ingredients		
	Cat No:- 7439921 Lead content (Pb)	
	trace only 11ppm detected	
	see SGS safety No GZSCR050208733	B/LP

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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 .

Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.

4. FIRST AID MEASURES

On contact with eyes	No first aid should be required
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 or dry powder. Water can be used to cool fire exposed containers.
Unsuitable extinguishing media	None Known
Hazards during fire fighting	None Known
Special protective equipment/procedures	Self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after fire is out.
Hazardous combustion products	Silica, carbon oxides and traces of incompleley burned carbon compounds. Formaldehyde, Hydrogen, Metal products.

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6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Advice on safe handling	
Advice on safe nanding	Company I respetitation in magning d
	General ventilation is required.
	Local ventilation is recommended.
	Avoid Eye contact.
Advice on storage	
	Do not store with oxidising agents. This product
	slowly evolves hydrogen on storage.
	Keep container closed and store away from water
	or moisture.
Specific uses	
•	Refer to Technical data sheet
Unsuitable packaging materials	
Chantable packaging materials	Do not store in or use aloss containers
	Do not store in or use glass containers.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Vantilation	
T Veniuano	n: Refer section 7 (above)
Ventuation	ii . Refer section / (above)
Exposure controls for hazardous	
components	
Personal protection equipment	
1 Cr sonar protection equipment	
Suitable respirat	tory protection should be worn if
	sed in large quantities, confined
spaces or in other	er circumstances where the OEL
	approached or exceeded.
	mask is recommended. BP filter.
·	respiratory protection supplier.
Hand protection	4 11
Gloves a	re not normally required.
Eye protection	
	glasses should be worn.
Skin protection	
Protective equip	pment is not normally necessary
Hygiene measures	
• •	ndustrial hygiene practise. Wash
	ng ,especially before eating.
Environmental exposure	
controls Ref	Fer to section 6 & 12
Additional information	
	tions are for room temperature
<u> </u>	se at Elevated temperature or
_	ay applications may be added
	precautions.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
	Form Grease
	Colour Gray
	Odour Slight
Important heath, safety &	
environmental information	
Explosive properties	No
Specific gravity	
	>2.5 @25 .C
Oxidizing properties	
	No

The above information is not intended for use in preparing product specification.

Contact Akasa for more details.

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10. STABILITY AND REACTIVITY

Stability	Stable under normal usage conditions.
Conditions to avoid	None established.
Materials to avoid	Can react with strong oxidising agents. Hydrogen is liberated on contact with water, alcohols ,acidic or basic materials , many metals or metallic compounds and can from explosive mixtures in the air.
Hazardous decomposition products	See section 11 If this product is heat to >150 degrees .C trace quantities of map be released and may require adequate ventilation.

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

Based on product test data
 Based on test data from similar products

According to EC directive 91/155/EEC and subsequent amendments



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11. ECOLOGICAL INFORMATION

Environmental fate and distribution

Solid material, insoluble in water.

Ecotoxicity effects

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.

Fate and effects in waste water treatment plants

No adverse effects on bacteria are predicted.

12. 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'.

13. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)
Not subject to DOT
Ocean Shipment (IMDG)
Not subject to IMDG code
Air Shipment (IATA)
Not subject to IATA regulations

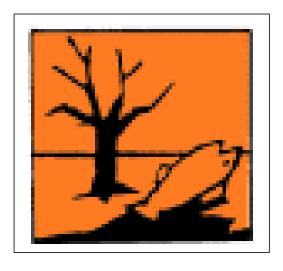
According to EC directive 91/155/EEC and subsequent amendments



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14. REGULATORY INFORMATION

Labelling according to EEC	N Dangerous for the environment.
Directive	Substances and preparations which, were they
	to enter into the environment, would present
Symbol	or might present an immediate or delayed
	danger for one or more components of the
	environment.
R-phrases	R50/53
	(percentage by weight of each substance)
	Very toxic to aquatic organisms may cause
	long –term adverse effects in the aquatic
	environment.
S-phrases	
	S9 Keep container in a well-ventilated place
	S51 Use only in well-ventilated areas.
	S57 Use appropriate container to avoid
	environmental contamination
	S60 This material and its container must be
	disposed of as hazardous waste
National legislation/regulations	
	No ozone depleting chemicals are present or
Ozone depleting chemicals	used in manufacture.
Status	
EINECS	All ingredients listed or exempt.
TSCA	All chemicals substanes in this areincluded on
	or exempted from listing on the TSCA
	Inventory of chemical subtances.



According to EC directive 91/155/EEC and subsequent amendments



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15. OTHER INFORMATION

This product safety datasheet was prepared in complicance 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.