

Dow Corning Taiwan Incorporated Material Safety Data Sheet

DOW CORNING(R) TC-5022 THERMALLY CONDUCTIVE COMPOUND

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1	Product Name:	DOW CORNING(R) TC-5022 THERMALLY CONDUCTIVE COMPOUND	
1.2	Product Code:	04053696	
1.3	Chemical Classification:	Silicone compound	
1.4	Company Details		
	Manufacturer/Supplier:	Dow Corning Taiwan Inc.	
	Address:	10F No.246 Sec.1 Nei Hu Road, Nei Hu District, Taipei, Taiwan 11493	
	Telephone Number:	886-2-66003100	Fax Number: 886-2-66003199
	Emergency Telephone Number:	0800-055-119	
	Contact Person:	Environment, Health, and Safety Manager	

2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1 Chemical characterization: Mixture

2.2 Hazardous Ingredients:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>	<u>Hazard Classification</u>
No hazardous ingredients.			

3. HAZARDS IDENTIFICATION

3.1 Most Important Hazards

Adverse Health Effects: Not hazardous.

Environmental Effects: Not applicable.

Physical and Chemical Effects: Not applicable.

Specific Hazards:

Can react with strong oxidising agents.

3.2 Signs and Symptoms of Overexposure:

No significant adverse effects from a single exposure expected from normal use.

3.3 Overall Hazard Classification

Not classified to be a dangerous material

4. FIRST AID MEASURES

4.1 First Aid Measures

Eyes: Immediately flush with water for 15 minutes.

Dow Corning Taiwan Incorporated Material Safety Data Sheet

DOW CORNING(R) TC-5022 THERMALLY CONDUCTIVE COMPOUND

	Skin:	No first aid should be needed.
	Inhalation:	No first aid should be needed.
	Oral:	Get medical attention.
	Comments:	Treat according to person's condition and specifics of exposure.
4.2	Signs and Symptoms of Overexposure:	No significant adverse effects from a single exposure expected from normal use.
4.3	Personal protection for first aid or rescue personnel who have to enter the workplace in which a major spill has occurred	
	Respiratory protection:	No respiratory protection should be needed.
	Eye protection:	Use proper protection - safety glasses as a minimum.
	Hand protection:	No special protection needed.
4.4	Note to physicians:	Treat symptomatically. For further information, the medical practitioner should contact Dow Corning Taiwan Co. Ltd.

5. FIRE FIGHTING MEASURES

5.1	Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO ₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
5.2	Specific Hazards:	None.
5.3	Special Fire Fighting Procedures:	Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
5.4	Special protective equipment for the Fire Fighters:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

6. ACCIDENTAL RELEASE MEASURES

6.1	Personal Precautions:	Avoid eye contact. Do not take internally.
6.2	Environmental Precautions:	Do not allow large quantities to enter drains or surface waters.

Dow Corning Taiwan Incorporated Material Safety Data Sheet

DOW CORNING(R) TC-5022 THERMALLY CONDUCTIVE COMPOUND

6.3 Methods for Cleaning up: Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE

7.1 Handling Precautions: Use with adequate ventilation. Avoid eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

7.2 Storage Conditions: Use reasonable care and store away from oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Industrial Hygiene Standards:

<u>Ingredients</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
None known.		

8.2 Engineering Controls

Local Ventilation: None should be needed.
General Ventilation: Recommended.

8.3 Personal Protective Equipment for Routine Handling

Respiratory protection: No respiratory protection should be needed.
Suitable Respirator: None should be needed.
Eye protection: Use proper protection - safety glasses as a minimum.
Hand protection: No special protection needed.
Skin protection: Washing at mealtime and end of shift is adequate.

8.4 Personal Protective Equipment for Spills

Respiratory protection: No respiratory protection should be needed.
Eye protection: Use proper protection - safety glasses as a minimum.
Skin protection: Washing at mealtime and end of shift is adequate.

8.5 Hygiene Measures: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

8.6 Precautionary Measures: Avoid eye contact. Do not take internally. Use reasonable care.

Dow Corning Taiwan Incorporated
Material Safety Data Sheet**DOW CORNING(R) TC-5022 THERMALLY CONDUCTIVE COMPOUND**

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Form:	Grease
9.2 Color:	Gray
9.3 Odor:	Odorless
9.4 pH:	Not determined.
9.5 Water Solubility:	Not determined.
9.6 Boiling point/range:	Not determined.
9.7 Decomposition Temperature :	Not determined.
9.8 Flash Point:	Not applicable.
9.9 Autoignition temperature:	Not determined.
9.10 Explosive properties:	No
9.11 Vapor Pressure @ 25°C:	Not determined.
9.12 Vapour Density (air=1):	Not determined.
9.13 Specific Gravity:	3.25
9.14 Upper Flammability Limit:	Not determined.
9.15 Lower Flammability Limit:	Not determined.

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

10.1 Stability:	Stable.
10.2 Materials to Avoid:	Can react with strong oxidising agents.
10.3 Conditions to Avoid:	None.

Dow Corning Taiwan Incorporated Material Safety Data Sheet

DOW CORNING(R) TC-5022 THERMALLY CONDUCTIVE COMPOUND

10.4 Hazardous Decomposition Products:	Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde. Metal oxides.
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11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

<u>Chemical Name</u>	<u>CAS No.</u>	<u>LD50 (Oral)</u>	<u>LC50 (Inhalation)</u>
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No hazardous ingredients.

Eyes:	Direct contact may cause mild irritation.
Skin:	No significant irritation expected from a single short-term exposure.
Ingestion:	Low ingestion hazard in normal use.
Inhalation:	No significant effects expected from a single short-term exposure.

11.2 Chronic Toxicity

Skin:	Repeated or prolonged exposure may cause irritation.
Ingestion:	Repeated ingestion or swallowing large amounts may injure internally.
Inhalation:	No known applicable information.

11.3 Sensitizing Effects: None known.

11.4 Other Health Hazard Information: No known applicable information.

The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

12. ECOLOGICAL INFORMATION

12.1 Environmental Fate and Distribution:

Solid material, insoluble in water. No adverse effects are predicted.

12.2 Environmental Effects:

No adverse effects on aquatic organisms are predicted.

Bioaccumulation: No bioaccumulation potential.

12.3 Fate and Effects in Waste Water Treatment Plants:

No adverse effects on bacteria are predicted.

Dow Corning Taiwan Incorporated Material Safety Data Sheet

DOW CORNING(R) TC-5022 THERMALLY CONDUCTIVE COMPOUND

13. DISPOSAL CONSIDERATIONS

- 13.1 Product Disposal:** Dispose of in accordance with local regulations.
- 13.2 Packaging Disposal:** Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 International Transport Regulations

DOT Road Shipment Information (49 CFR 172.101):

Not subject to DOT.

Sea Transport (IMDG):

Not subject to IMDG code.

Air Transport (IATA):

Not subject to IATA regulations.

- 14.2 National Transport Regulations :** Rules for Transport by Road, No. 84
National Maritime Dangerous Goods Rules
National code for the Transport of Dangerous Goods by Rail
- 14.3 Special Requirements and Additional Information :** Not available.

15. REGULATORY INFORMATION

Applicable Laws: Rules on Workers Health and Safety Facilities.
Rules on Hazard Communication of Dangerous Materials and Toxic Materials.
Rules for Transport by Road.
Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste.

16. OTHER INFORMATION

- 16.1 Literature References:** Thomson MICROMEDEX, Ariel WebInsight, Internal Technical Data and others
- 16.2 MSDS Provider**
- Name:** Dow Corning Taiwan Inc.

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Address:	10F No.246 Sec.1 Nei Hu Road, Nei Hu District, Taipei, Taiwan 11493
Telephone Number:	886-2-66003100
16.3 Contact Person:	Environment, Health, and Safety Manager
16.4 Date of Issue:	2005/02/07

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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