



Safety Data Sheet

SDS CODE: TC-TE-RES-005:043 1/4

Version: A/1 Last update: 2019-01-22

Tinci (R) TCS-6500

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY			
1.1	INCI Name:	CYCLOPENTASILOXANE	
1.2	CAS No:	541-02-6	
1.3	Chemical Classification:	Transparent Silicone	
1.4	Dangerous Goods Classification:	Not assessed.	
1.5	Company Details:		
	Manufacture/Supplier:	Guangzhou Tinci Materials Technology Co., Ltd	
	Address:	8 th Kangda Road, Yunpu Industrial Zone, Huangpu District, Guangzhou, China	
	Telephone Number:	(86 20) 82251159 fax No.(86 20)82058669	
	Emergency Telephone Number:	(86 20) 82251159	
	Contact Person:	Technical support engineer	
1.6	The date of taking effect:	January 2019	
2. COMPOSITION/INFORMATION ON INGREDIENTS			
2.1	Chemical characterization:	Substance	
2.2	Physical Form:	Liquid	
2.3	Color:	Colorless	
2.4	Use:	Personal care additive	
2.5	Hazardous Ingredients:		
	Chemical Name	CAS No	% (w/w) Symbols & Health Risk Phrases
	none		
3. HAZARDS IDENTIFICATION			
3.1	Overall Hazard Classification:	Not hazardous.	
3.2	Hazard Information:	Not hazardous. Avoid contact with eyes.	
3.3	Route of Exposure:	Skin Contact and Accidental Ingestion.	
3.4	Possible Health Effects:		
	<u>Acute</u>		
	Eyes:	Direct contact may cause temporary redness and discomfort.	
	Skin:	No significant irritation expected from a single short-term exposure.	
	Inhalation:	No significant effects expected from a single short-term exposure.	
	Ingestion:	Low ingestion hazard in normal use.	
	<u>Chronic</u>		
	Skin:	No know applicable information.	
	Inhalation:	No know applicable information.	
	Ingestion:	Repeated ingestion or swallowing large amounts may injure internally.	
3.5	Signs and Symptoms of Overexposure:	No significant adverse effects from a single exposure expected from normal use.	
4. FIRST AID MEASURES			
4.1	Eyes:	Immediately flush with water for 15 minutes.	
4.2	Skin:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.	
4.3	Inhalation:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.	
4.4	Ingestion:	Get medical attention.	
4.5	Comments:	Treat according to person's condition and specifics of exposure.	
4.6	Note to physicians:	Treat symptomatically.	
5. FIRE FIGHTING MEASURES			
5.1	Flammability:	Non-flammable.	
5.2	Flash point:	77°C /170.6 °F(Tag Closed Cup)	
5.3	Autoignition temperature:	Not determined.	
5.4	Lower Flammability Limit:	Not determined.	
5.5	Upper Flammability Limit:	Not determined.	



Safety Data Sheet

SDS CODE: TC-TE-RES-005:043 2/4

Version: A/1 Last update: 2019-01-22

Tinci (R) TCS-6500

5.6	Hazardous Properties:	None	
5.7	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.	
5.8	Special Fire Fighting Procedures and Equipment:	Self-contained breathing apparatus and protective clothing should be worn in fight large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.	
5.9	Hazardous Combustion Products:	Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Metal oxides. Sulfur oxides. Nitrogen oxides. Formaldehyde.	
5.10	Unsuitable Extinguishing Media:	None established.	
6. ACCIDENTAL RELEASE MEASURES			
6.1	Personal Precaution:	Avoid skin and eye contact. Do not take internally.	
6.2	Environmental Precautions:	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.	
6.3	Methods for Cleaning up:	Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in this SDS. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since some silicone 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:	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. Expected shelf life if stored at recommended temperatures: 24 months.	
7.3	Unsuitable Packaging Materials:	None established	
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:	Recommended.	
	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.	
	Hygiene Measures:	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.	
8.4	Personal Protective Equipment for Spills		
	Respiratory protection:	No respiratory protection should be needed.	



Safety Data Sheet

SDS CODE: TC-TE-RES-005:043 3/4

Version: A/1 Last update: 2019-01-22

Tinci (R) TCS-6500

Eye protection: Use proper protection—safety glasses as a minimum.
 Skin protection: Washing at mealtime and end of shift is adequate.
 Precautionary Measures: Avoid eye contact. Do not take internally. Use reasonable care.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Form: Liquid
 9.2 Color: colorless
 9.3 Odor: Odorless
 9.4 pH: Not determined.
 9.5 Flash Point: 77°C /170.6 °F(Tag Closed Cup)
 9.6 Explosive properties: No
 9.7 Oxidizing properties: No
 9.8 Flammability: Combustible.
 9.9 Specific Gravity: 0.947~0.967
 9.10 Viscosity (25°C mpa·s): 3.5-4.5

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

10. STABILITY AND REACTIVITY

10.1 Stability: Stable.
 10.2 Reactivity:
 Conditions to Avoid: None.
 Materials to Avoid: Can react with strong oxidising agents.
 Hazardous Decomposition Products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.
 Hazardous Polymerization: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

11.1 Inhalation LC50 (Rat): 8.67 mg/l - 4hr dust/mist.
 11.2 On contact with eyes: May cause temporary discomfort.
 11.3 Component Toxicology Information: Recent results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcyclotrasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. These effects, which have been shown to be rat-specific, occur at the highest exposure dose (160 ppm) only, a level that greatly exceeds typical workplace or consumer exposures. Industrial, commercial, or consumer uses of products containing D5 do not represent a risk to humans.
 11.4 Special Information on Components: Hazard on No known applicable information.

12. ECOLOGICAL INFORMATION

12.1 Environmental Fate and Distribution: Low molecular weight volatile siloxanes have very low water solubility and evaporate to air. Low molecular weight volatile siloxanes in air are degraded by reaction with hydroxyl radicals, which is the dominant degradation process for most chemicals in the atmosphere. Low molecular weight volatile siloxanes in soil are removed by several simultaneously occurring processes including volatilisation, hydrolysis, and clay-catalysed degradation.
 12.2 Environmental Effects:
 No adverse effects on aquatic organisms.
 Bioaccumulation: Low molecular weight volatile siloxanes bioconcentrate in fish exposed under controlled laboratory conditions that are not representative of conditions found in the environment.
 12.3 Fate and Effects in Waste Water Treatment Plants: No adverse effects on bacteria are predicted. The siloxanes in this product do not contribute to the BOD. Low molecular weight volatile siloxanes are efficiently removed (>90%) during wastewater treatment with approximately equal amounts going to the atmosphere and the sludge. Low molecular weight volatile siloxanes in treated wastewater effluent will be bound to particulate matter because of very low water solubility.



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12.4	Additional Environmental Information: Degradation:	Additional environmental information on the silicone component is available on request.
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	Road / Rail (ADR/RID):	Not subject to ADR/RID.
14.2	Sea Transport (IMDG):	Not subject to IMDG code.
14.3	Air Transport (ICAO):	Not subject to ICAO regulations.
15. REGULATORY INFORMATION		
15.1	Applicable Laws:	Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace, particularly those relating to the safe use, production, storage and transportation of dangerous chemicals.
15.2	Chemical Inventories:	
	AICS:	All ingredients listed or exempt.
	DSL:	All chemical substances in this material are included on or exempted from the DSL.
	IECSC:	All ingredients listed or exempt.
	MITI:	All components are listed on ENCS or its exempt rule.
	KECL:	All ingredients listed, exempt or notified.
	EINECS:	All ingredients listed or exempt.
	PICCS:	All ingredients listed or exempt.
	TSCA:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
16. OTHER INFORMATION		
	Contact Point:	Technical Services Engineer (86 20) 82251159
	Prepared by:	Guangzhou Tinci Materials Technology Co., Ltd
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 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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