

Material Safety Data Sheet

High Tear Strength Type Silicone Rubber

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY		
1.1	Product Name:	Silicone Rubber TYS171
1.2	Main Applications:	Silicone Rubber Production.
1.3	Limit Applications:	Implanted or injected into the human body.
1.4	Company Details	
	Manufacturer/Supplier:	ZHEJIANG XINAN CHEMICAL INDUSTRIAL GROUP CO.,LTD
	Address:	NO.1 XINAN BUILDING, JIANGBING MIDDLE ROAD, JIANDE, ZHEJIANG,P.R.CHINA
	Telephone Number/ Emergency Telephone Number:	(+86) 0571-64715105
	Fax:	(+86) 0571-64715109
	Website:	www.wynca.com

2. HAZARDS IDENTIFICATION		
2.1	Overall Hazard Classification:	Not hazardous.
2.2	Hazard Information:	Not hazardous. Avoid contact with eyes.
2.3	Route of Exposure:	Skin Contact and Accidental Ingestion.
2.4	Possible Health Effects:	
	<u>Acute</u>	
	Eyes:	No significant irritation expected from a single exposure.
	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>	
	Eyes:	No known applicable information.
	Skin:	No known applicable information.
	Inhalation:	No known applicable information.
	Ingestion:	Repeated ingestion or swallowing large amounts may injure internally.
2.5	Signs and Symptoms of Overexposure:	No significant adverse effects from a single exposure expected from normal use.

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3. COMPOSITION / INFORMATION ON INGREDIENTS			
3.1	Chemical characterization:	Mixture	
3.2	Main Ingredients:		
	<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>
	Silicon dioxide	7631-86-9	15%-35%
	Oligosiloxane	63148-62-9	5%-10%
	Polysiloxanes, di-Me, Me vinyl, vinyl group-terminated	68083-18-1	60%-80%
3.3	Hazardous Ingredients*:		
	<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u> <u>Symbols & Health Risk Phrases</u>
	No hazardous ingredients.		
	*According to European Commission Directive 1999/45/EC (Article 3 [3])		

4. FIRST AID MEASURES		
4.1	Eyes:	Immediately flush with water.
4.2	Skin:	No first aid should be needed.
4.3	Inhalation:	No first aid should be needed.
4.4	Ingestion:	No first aid should be needed.
4.5	Note to Physicians:	Treat symptomatically. For further information, the medical practitioner should contact Wynca Tinyo silicone CO.,LTD.

5. FIRE FIGHTING MEASURES		
5.1	Flammability:	Non-inflammable.
5.2	Upper Flammability Limit:	Not determined.
5.3	Lower Flammability:	Not determined.
5.4	Hazardous Properties:	None.
5.5	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.
5.6	Special Fire Fighting Procedures and Equipment:	Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool. Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

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5.7	Hazardous Combustion Products:	Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.
5.8	Unsuitable Extinguishing Media:	None established.

6. ACCIDENTAL RELEASE MEASURES

6.1	Personal Precautions:	Do not take internally.
6.2	Environmental Precautions:	Do not allow large quantities to enter drains or surface waters.
6.3	Methods for Cleaning up:	Observe all personal protective equipment recommendations described in this MSDS. Collect and contain for salvage or disposal. 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. 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.
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:	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.	

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	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:	
	Eye Protection:	Use proper protection - safety glasses as a minimum.
	Respiratory protection:	No respiratory protection should be needed.
	Skin Protection:	Washing at mealtime and end of shift is adequate.
	Precautionary Measures:	Do not take internally. Use reasonable care.
	Comments:	If this product is heated to > 150°C, trace quantities of formaldehyde may be released, and adequate ventilation is required.
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:	Solid.
9.2	Colour:	Colourless.
9.3	Odour:	Odourless.
9.4	pH:	Not determined.
9.5	Solubility in Water:	Not determined.
9.6	Boiling Point:	Not determined.
9.7	Melting Point:	Not determined.
9.8	Flash Point:	Not applicable.
9.9	Auto ignition Temperature:	Not determined.
9.10	Explosive Properties:	No.
9.11	Oxidizing Properties:	No.
9.12	Vapor Pressure (25°C):	Not determined.
9.13	Specific Gravity:	1.00-1.30

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9.14	Octanol/Water Partition Coefficient:	Not determined.
9.15	Vapour Density (air=1):	Not determined.
9.16	Viscosity:	Not determined.
9.17	Molecular Weight:	Not determined.
The above information is for reference only, if you need product information, please contact the Wynca Tinyo Silicone CO.,LTD.		

10. STABILITY AND REACTIVITY

10.1	Stability:	Stable.
10.2	Reactivity:	
	Conditions to Avoid:	None.
	Materials to Avoid:	Can react with strong oxidizing 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	Possible Health Effects:	Refer to Section 2.4.
11.2	Sensitizing Effects:	None known.
11.3	Mutagenic Effects:	None known.
11.4	Reproductive Effects:	None known.
11.5	Carcinogenic Effects:	None known.
11.6	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.		

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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.
12.3	Bioaccumulation:	No bioaccumulation potential.
12.4	Fate and Effects in Waste Water Treatment Plants:	No adverse effects on bacteria are predicted.

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 and Rail Transport:	Not applicable.
14.2	Sea Transport (IMDG):	Not subject to IMDG code.
14.3	Air Transport (IATA):	Not subject to IATA 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:	
	KECL:	All ingredients listed, exempt or notified.
	EINECS:	All ingredients listed or exempt.
	IECSC:	All ingredients listed or exempt.
	AICS:	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.
	PICCS:	All ingredients listed or exempt.
	MITI:	Not determined.
	DSL:	Not determined.

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16. OTHER INFORMATION		
16.1	Technical Services	+86) 0571-64796362
16.2	Issued:	9/8/2022
	Period of validity:	5 years
<p>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.</p>		