

Design Report of Safety Data Sheet

(MSDS)

Product Name:

SILICONE SEALANT

Type/Model:**Entrust Unit:**DUDI (ZHEJIANG) NEW MATERIALS CO.,
LTD.**Audited by:**

DAVE

Edited by:

NICOK



Unit: Guangfen Testing Institute (Guangzhou) Quality Inspection Co., Ltd. (GFQT)

Add: Room 101, 1st Floor, Building 2, Jinke Industrial Park, No. 1 Xinji Avenue, Nancun Town, Panyu District, Guangzhou

Tel: 020-66624679

Web: www.gflad.com

SAFETY DATA SHEET(SDS)

Silicone sealant

*According to GHS (Eleventh Revised Edition)

MSDS

Section 1 Identification of the chemical and supplier

♦ Product identifier

Product Name	Silicone sealant
Type/Model	-
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

♦ Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Please consult the manufacturer.
Uses advised against	Please consult the manufacturer.

♦ Details of the supplier of the Safety Data Sheet

Applicant Name	Dudi (Zhejiang) New Materials Co., Ltd.
Applicant Address	No.5 Yanli Road, Pujiang County, Jinhua City, Zhejiang Province
Applicant Telephone	+86-18267068055
Applicant Fax	-
Applicant E-mail	Ying1zi120@qq.com
Supplier Name	Dudi (Zhejiang) New Materials Co., Ltd.
Supplier Address	No.5 Yanli Road, Pujiang County, Jinhua City, Zhejiang Province
Supplier Telephone	+86-18267068055
Supplier Fax	-
Supplier E-mail	Ying1zi120@qq.com

♦ Emergency phone number

Emergency phone number	+86-0579-88889449
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Section 2 Hazards identification

♦ Hazard classification according to GHS

Flammable liquids	Category 4
Skin sensitization	Category 1

♦ GHS Label elements

Hazard pictograms		
Signal word		Warning
♦	Hazard statements	
	H227	Combustible liquid.
	H317	May cause an allergic skin reaction.
♦	Precautionary statements	
▲	Prevention	
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261	Avoid breathing dust/fume/gas/mist/ vapours/spray.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
▲	Response	
	P370 + P378	In case of fire:Use the appropriate extinguishing media mentioned in Section 5 of the MSDS to extinguish the fire.
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	P333 + P317	If skin irritation or rash occurs: Get medical help.
	P321	Specific treatment (See relevant instructions on this label) .
	P362 + P364	Take off contaminated clothing and wash it before reuse.
▲	Storage	
	P403 + P235	Store in a well-ventilated place. Keep cool.
▲	Disposal	
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
♦	Hazard description	
▲	Physical and chemical hazards	
	Physical and chemical hazards	Liquid, fire can produce toxic smoke.
▲	Health hazards	
	Inhaled	May cause respiratory irritation, with symptoms including sore throat, coughing, and difficulty breathing. Effects may be more pronounced in individuals with respiratory sensitivities .
	Ingestion	Harmful if swallowed. Accidental ingestion may cause gastrointestinal discomfort, such as abdominal pain, nausea, and vomiting. Cured sealant may pose a risk of physical obstruction

	in the gastrointestinal tract.		
Skin Contact	May cause skin irritation, leading to redness, itching, or dermatitis. Uncured sealant is adhesive, and prolonged or repeated contact may strip the skin's natural oils, resulting in dryness or cracking. Sensitive individuals may experience allergic reactions.		
Eye	Uncured product is irritating to the eyes. Contact may cause redness, tearing, and pain. Mechanical irritation may also occur.		
▲	Environmental hazards		
Environmental hazards	Please refer to 12th chapter of MSDS.		
Section 3 Composition/information on ingredients			
♦	Substance / mixture		
☐ Substance ☒ mixture			
Component	Cas No.	EC No.	Concentration (weight percent, %)
Greenhouse silicone rubber	63148-60-7	N/A	30-50
Calcium carbonate	471-34-1	207-439-9	30-40
Methylsilicone oil	63148-62-9	613-156-5	5-10
Meteorological silica	112945-52-5	601-216-3	5-10
Methyltri-n-butylketoxysiloxane	2031-67-6	217-983-9	5-10
Organotin	77-58-7	201-039-8	0.001-0. 01
Section 4 First aid measures			
♦	Description of first aid measures		
General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.		
Eye contact	Immediately and carefully flush the eyes with plenty of water or normal saline for at least 15 minutes. If contact lenses are worn and can be easily removed during flushing, remove them immediately. After flushing, seek medical attention without delay.		
Skin contact	Immediately and thoroughly rinse with plenty of soap and water for at least 15 minutes. After rinsing, if persistent or worsening irritation, redness, rash, or other symptoms occur, seek medical attention.		
Ingestion	Do not induce vomiting. Rinse mouth immediately with water. Do not give anything by mouth to an unconscious or convulsing person. Call a poison control center or seek medical care immediately. Provide the doctor with information on the ingested substance.		
Inhalation	Immediately move the patient to fresh air. If the patient has difficulty breathing, administer oxygen. If breathing has stopped, trained personnel should perform artificial respiration immediately. If respiratory irritation or discomfort occurs, seek medical attention promptly.		
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.		

♦	Most important symptoms/effects, acute and delayed	
1	Ingestion: May cause gastrointestinal irritation or obstruction. Risk of chemical pneumonia if aspirated into the lungs.	
2	Inhalation: May cause upper respiratory tract irritation. In extreme cases, high concentrations of vapor/aerosol may cause depression of the central nervous system.	
♦	Indication of any immediate medical attention and special treatment needed	
1	Treat symptomatically.	
2	Symptoms may be delayed.	
Section 5 Firefighting measures		
♦	Extinguishing media	
Suitable extinguishing media		Use carbon dioxide (CO ₂), dry powder, foam, or sand for fire extinguishing.
Unsuitable extinguishing media		Avoid using direct high-volume water jets, as they may not effectively extinguish the fire and could disperse burning material.
♦	Specific hazards arising from the substance or mixture	
1	The product itself is not flammable at room temperature, but as an organosilicon compound, it may combust under high-temperature conditions.	
2	Under fire conditions, this product may decompose or combust, generating: irritating, corrosive, and toxic fumes and gases.	
3	Smoke generated by combustion may pose a serious respiratory hazard to firefighters and on-site personnel.	
♦	Special protective equipment and precautions for fire-fighters	
1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear	
2	Fight fire from a safe distance, with adequate cover.	
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.	
Section 6 Accidental release measures		
♦	Personal precautions, protective equipment and emergency procedures	
1	Ensure adequate ventilation and immediately evacuate all unnecessary personnel from the spill area.	
2	Avoid direct contact. Personnel handling spills must wear appropriate personal protective equipment (PPE).	
3	Eliminate all ignition sources and ignition measures (e.g., sparks, open flames, hot surfaces). Although this product is not flammable, this should still be followed as a general safety principle.	
♦	Environmental precautions	
1	Prevent further leakage or spillage if safe to do so.	
2	Discharge into the environment must be avoided.	
♦	Methods and materials for containment and cleaning up	
1	Small-scale spill: Use non-sparking tools (e.g., plastic shovel or scraper) to collect the spilled paste into a dedicated sealed container. For residual traces, wipe clean with a cloth dampened with a suitable solvent such as acetone or alcohol.	

2	Large-scale spill: Cover the spill with sand, inert absorbent material (e.g., vermiculite), or non-combustible absorbent to limit its spread. Carefully shovel the absorbed material and place it into labeled containers for disposal.				
3	Attachments or collections should be stored in suitable airtight containers and disposed of in accordance with relevant local laws and regulations.				
Section 7 Handling and storage					
♦	Precautions for safe handling				
1	When handling the product, especially during operations such as application or trimming that may involve contact with uncured material, appropriate personal protective equipment (PPE) should be worn, including impermeable gloves, protective goggles, and it is recommended to wear protective clothing.				
2	After handling, and before eating, smoking, or using the restroom, be sure to wash hands thoroughly.				
3	Avoid prolonged or repeated contact of the product with skin and eyes.				
4	Ensure the work area is well-ventilated, especially during indoor or confined space applications. Mechanical ventilation (e.g., exhaust fans) should be used to reduce the concentration of volatile substances such as methyl ethyl ketoxime in the air.				
5	In its uncured state, this product should avoid contact with amines, sulfides, sulfoxide compounds, and heavy metal compounds (e.g., organotin), as these substances may inhibit or prevent curing. Avoid contact with food and feed.				
♦	Conditions for safe storage, including any incompatibilities				
1	Store in a cool, dry, and well-ventilated place.				
2	Avoid direct sunlight and keep away from heat sources, sparks, and open flames.				
3	The recommended storage temperature is typically 5°C to 25°C. Excessively high temperatures may accelerate product solidification and increase internal canister pressure, while excessively low temperatures may affect extrudability and curing performance.				
4	Keep the container tightly sealed. The tube cap or nozzle should be closed immediately after use to prevent moisture from the air from entering and causing the product to solidify inside the packaging.				
5	In its original unopened packaging and under the recommended storage conditions mentioned above, the product typically has a shelf life of 12 months. Please follow the specific expiration date indicated on the supplier's label.				
6	It should be stored separately from strong oxidizing agents, strong acids, strong bases, and similar substances.				
Section 8 Exposure controls/personal protection					
♦	Control parameters				
▲	Occupational Exposure limit values				
Component	Country/Region	Limit value - TWA		Limit value - STEL	
		ppm	mg/m³	ppm	mg/m³
calcium carbonate	Australia	-	10	-	-
	Ireland	-	10	-	-
	New Zealand	-	10	-	-
	South Korea	-	10	-	-

	USA - NIOSH	10	5	-	-
Methylsilicone oil	Romania	-	60	-	80
Meteorological silica	Germany (DFG)		0,02		
	Switzerland		4		
Organotin	China		0,1		0,2
▲	Biological limit values				
	No information available				
▲	Monitoring methods				
1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.				
2	GBZ/T 300 Series Standards — Determination of Toxic Substances in Workplace Air.				
▲	Engineering controls				
1	Ensure adequate ventilation, especially in confined areas.				
2	Ensure that eyewash stations and safety showers are close to the workstation location.				
3	Set up emergency exit and necessary risk-elimination area.				
4	Handle in accordance with good industrial hygiene and safety practice.				
▲	Personal protection equipment				
General requirement					
Eye protection	Must wear appropriate safety goggles.				
Hand protection	Must wear appropriate chemical protective gloves.				
Respiratory protection	Must wear appropriate personal respiratory protective equipment.				
Skin and body protection	Must wear appropriate Work clothes.				
Section 9 Physical and chem					
◆	Physical and chemical properties				
Appearance		White paste			
Odor		weak odor			
pH		No information available\Not applicable.			
Melting point/freezing point(°C)		No information available\Not applicable.			
Initial boiling point and boiling range(°C)		No information available\Not applicable.			
Flash point(Closed cup,°C)		No information available\Not applicable.			
Evaporation rate		No information available\Not applicable.			

Flammability	Not flammable		
Upper/lower explosive limits[%(v/v)]	No information available\Not applicable.		
Vapor pressure(KPa)	No information available\Not applicable.		
Vapor density(Air = 1)	No information available\Not applicable.		
Relative density(Water=1)	No information available\Not applicable.		
Solubility(mg/L)	Not Soluble In Water		
n-octanol/water partition coefficient	No information available\Not applicable.		
Auto-ignition temperature(°C)	No information available\Not applicable.		
Decomposition temperature(°C)	No information available\Not applicable.		
Viscosity(mm²/s)	No information available\Not applicable.		
Particle characteristics	No information available\Not applicable.		
Section 10 Stability and reactivity			
♦	Stability and reactivity		
Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.		
Chemical stability	Under recommended storage conditions, the product is stable in its original sealed packaging.		
Possibility of hazardous reactions	Under normal circumstances, no harmful reactions will occur.		
Conditions to avoid	Moisture, high temperatures, strong acids, strong bases.		
Incompatible materials	Amines, sulfides and sulfur-containing compounds, heavy metal compounds, strong oxidizing agents, strong acids, and strong bases.		
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
Section 11 Toxicological information			
♦	Acute toxicity		
Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Calcium carbonate	6450 mg/kg(Rat)	No information available	No information available
Methyltri-n-butylketoxysiloxane	7670 mg/kg(Rat)	11900mg/kg(Rabbit)	No information available
♦	Carcinogenicity		
Component	IARC	NTP	
Greenhouse silicone rubber	Not Listed	Not Listed	
Calcium carbonate	Not Listed	Not Listed	
Methylsilicone oil	Not Listed	Not Listed	
Meteorological silica	Not Listed	Not Listed	

Methyltri-n-butylketoxysiloxane	Not Listed	Not Listed
Organotin	Not Listed	Not Listed
♦ Others		
Skin corrosion/irritation	May cause an allergic skin reaction.	
Serious eye damage/irritation	Based on available data, the classification criteria are not met	
Skin sensitization	Based on available data, the classification criteria are not met	
Respiratory sensitization	Based on available data, the classification criteria are not met	
Reproductive toxicity	Based on available data, the classification criteria are not met	
STOT-single exposure	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	Based on available data, the classification criteria are not met	
Section 12 Ecological information		
♦ Acute aquatic toxicity		
	No information available	
♦ Chronic aquatic toxicity		
	No information available	
♦ Persistence and degradability		
	No information available	
♦ Bioaccumulative potential		
	No information available	
♦ Mobility in soil		
	No information available	
♦ Results of PBT and vPvB assessment		
Component	Results of PBT and vPvB assessment (according to (EC) No 1907/2006)	
Greenhouse silicone rubber	not PBT/vPvB	
Calcium carbonate	not PBT/vPvB	
Methylsilicone oil	not PBT/vPvB	
Meteorological silica	not PBT/vPvB	
Methyltri-n-butylketoxysiloxane	not PBT/vPvB	
Organotin	not PBT/vPvB	
Section 13 Disposal considerations		

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Contact a qualified professional waste disposal service to dispose of this material.								
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.								
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.								
Section 14 Transport information									
♦ Label and Mark									
Transporting Label	Not applicable								
♦ IMDG-CODE									
IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS								
♦ IATA-DG									
IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS								
♦ UN-ADR									
UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS								
♦ Special precautions for user									
Special precautions for user	Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.								
♦ Transport in bulk according to IMO instruments									
▲ Transport in bulk according to Annex II of MARPOL and the IBC code	No information available								
▲ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code	No information available								
▲ Transport in bulk in accordance with the IGC Code	No information available								
Section 15 Regulatory information									
♦ International list of chemicals									
Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
Greenhouse silicone rubber	×	×	×	✓	×	×	×	×	×
Calcium carbonate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Methylsilicone oil	×	✓	✓	✓	✓	✓	✓	✓	✓
Meteorological silica	×	×	✓	✓	✓	✓	✓	✓	✓

Methyltri-n-butylketoxysiloxane	✓	✓	✓	✓	✓	✓	✓	✓	✓
Organotin	✓	✓	✓	✓	✓	✓	✓	✓	✓

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

【NZIoC】 New Zealand Inventory of Chemicals

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances

【KECI】 Existing and Evaluated Chemical Substances

【AIIC】 Australian Inventory of Industrial Chemicals

【ENCS】 Japan Inventory of Existing & New Chemical Substances

Note :

"✓" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 Additional Information

Information on revision

Creation Date	2026/09/11 (Explanation: The report is valid for one year)
Revision Date	-
Reason for revision	-

References:

【1】 IPCS:The International Chemical Safety Cards (ICSC) ,website: <http://www.ilo.org/dyn/icsc/showcard.home>.

【2】 IARC, website: <http://www.iarc.fr/>.

【3】 OECD: The Global Portal to Information on Chemical Substances, website:
http://www.chemportal.org/chemportal/index?pageID=0&request_locale=en.

【4】 CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.

【5】 NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.

【6】 EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.

【7】 U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.

【8】 Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG	International Maritime Dangerous Goods
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	ICAO-International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists

LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
ECX	Effective Concentration X%	vPvB	vPvB -High very Persistent, High very Bioaccumulative
P _{ow}	Partition coefficient Octanol:Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor (BCF)	RPE	Respiratory Protective Equipment
ED	Endocrine disruptors	-	-

◆ Disclaimer

This Safety Data Sheet (SDS) The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product, This report may not be published as an advertisement without the approval of the GFQT. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is illegal and the offender may be prosecuted to the fullest extent of the law.In case of any different meanings from the language used in the report, the Chinese version is applicable.