

Safety Data Sheet

GAUDON D1 Glass-Bonding Silicone Sealant

Product code D1 · Acetic cure silicone

Prepared in accordance with 29 CFR 1910.1200 (GHS Rev. 7)



IMPORTANT: Provide this information to employees, customers and users of this product. Read this Safety Data Sheet before handling, using or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with the requirements of that standard. Abbreviated terms used in this SDS are described in Section 16.

1. Identification

Product identifier	GAUDON D1 Glass-Bonding Silicone Sealant
Product code	D1 — Glass-Bonding Acetic-Cure Silicone Sealant. This Safety Data Sheet covers all case-pack variants of this code.
Chemical family	Acetoxy-functional (acetic cure) silicone sealant — mixture
Recommended use	High-strength bonding and sealing of glass and other compatible non-porous, non-metallic substrates — aquariums and fish tanks, glass bonding and glazing, display cases, glass panels, joints and partitions.
Uses advised against	Not for metal substrates — acetic acid released during cure is corrosive to metals; use a neutral-cure silicone. Not for structural bonding. Not for medical, dental or food-contact applications. Not for potable-water contact. Not for continuous water immersion before full cure. Not for unprimed porous substrates.

Details of the supplier of the Safety Data Sheet

Company	GAUDON USA LLC
Address	9393 Bellaire Blvd, Ste A5, Houston, TX 77036, United States
Telephone	+1 714-251-6425 (business hours)
E-mail	info@gaudon.store

Manufacturer — technical reference only

Manufacturer	Foshan Qiaohong New Material Co., Ltd.
Address	No. 2, No. 4, East Fuzhong 1st Road, Fulu Village, Leliu Subdistrict, Shunde District, Foshan City, Guangdong, China

Emergency telephone number	Medical emergency or exposure — Poison Control (United States), 24 hours 1-800-222-1222 Product and chemical enquiries — GAUDON USA LLC +1 714-251-6425 Monday – Friday, 8:00 AM – 5:00 PM Central Time Outside these hours, for any medical emergency or exposure call Poison Control. For fire, spill or release, call 911.
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2. Hazard(s) Identification

Classification in accordance with 29 CFR 1910.1200

Skin corrosion / irritation	Category 2
Serious eye damage / eye irritation	Category 2
All other hazard classes	Not classified — criteria not met on available data
Hazardous to the aquatic environment	Not classified (mixture calculation method)

Label elements



Signal word: **WARNING**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

Prevention	P264 Wash hands and exposed skin thoroughly after handling. P280 Wear protective gloves and eye/face protection.
Response	P321 Specific treatment — see the information on this label and this Safety Data Sheet. P302+P352 IF ON SKIN: Wash with plenty of water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.
Storage	P402+P403 Store in a dry, well-ventilated place.
Disposal	P501 Dispose of contents and container in accordance with local, state and federal regulations.

Hazards not otherwise classified (HNOC)

Acetic acid is released as a by-product of the moisture-cure reaction and gives the uncured product its characteristic pungent odour. In confined or poorly ventilated spaces, or where large volumes are applied, airborne acetic acid may accumulate and cause eye, nose, throat and respiratory irritation. Provide adequate ventilation during application and cure. See Sections 8 and 10.

The product contains hexamethyldisiloxane, a Category 2 flammable liquid, at 7 – 13 wt%. A flash point has not been determined for the finished mixture. Keep away from heat, sparks, open flame and other ignition sources, and handle as a potentially flammable material until a flash point is established.

Acetic acid released during cure is corrosive to many metals. Uncured sealant may stain porous substrates. Cured product is inert and presents no known health hazard in normal use.

3. Composition / Information on Ingredients

Substance or mixture: Mixture.

Component	CAS No.	EC No.	Concentration (wt %)
Hydroxyl-terminated polydimethylsiloxane	63148-62-9	613-156-5	60 – 80
Fumed silicon dioxide (amorphous)	112945-52-5	601-216-3	7 – 13
Polydimethylsiloxane (dimethicone)	9006-65-9	618-433-4	7 – 13
Hexamethyldisiloxane	107-46-0	203-492-7	7 – 13

Component	CAS No.	EC No.	Concentration (wt %)
Dibutyltin diacetate	1067-33-0	213-928-8	0 – 0.1

All components are listed on the US TSCA Inventory. No trade-secret concentration claim is made under 29 CFR 1910.1200(i).

NOTE ON DIBUTYLTIN DIACETATE

Dibutyltin diacetate is present only as a residual cure catalyst at below 0.1 wt%. It is acutely toxic and is classified as a reproductive toxicant. The OSHA cut-off for classifying a mixture on reproductive toxicity is 0.1 wt%; because the catalyst is held below that threshold, the mixture does not carry a reproductive-toxicity hazard statement.

4. First-Aid Measures

Eye contact	Rinse cautiously with water for at least 15 minutes, holding the eyelids apart. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, get medical attention.
Skin contact	Remove contaminated clothing. Wipe off excess uncured product with a dry cloth before washing — water alone will not remove it. Wash thoroughly with soap and water. If irritation develops or persists, get medical attention.
Inhalation	Move the person to fresh air and keep comfortable for breathing. If symptoms occur, get medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center (1-800-222-1222) immediately.
Symptoms and effects	Skin irritation; redness, pain and watering of the eyes. Exposure to acetic acid vapour released during cure in confined spaces may cause stinging of the eyes, nose and throat, coughing and chest discomfort.
Note to physician	Treat symptomatically. Show this Safety Data Sheet to the attending physician.

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray, carbon dioxide, dry chemical or foam. Use media appropriate to the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards	Contains a flammable component (hexamethyldisiloxane, 7 – 13 wt%); flash point of the mixture not determined. Combustion produces carbon oxides, silicon dioxide, acetic acid and other irritating or toxic organic compounds. Sealed containers may rupture when heated.
Protection for fire-fighters	Wear NIOSH-approved self-contained breathing apparatus and full protective turnout gear. Fight the fire from a protected position. Prevent fire-fighting water from entering storm drains or watercourses.

6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. Wear the protective equipment described in Section 8. Spilled material is slippery — mark and control the area to prevent falls.
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Environmental precautions	Prevent entry into drains, sewers, surface water and groundwater. Contain the spill.
Containment and clean-up	Scrape up bulk material mechanically and place in a closed, labeled container for disposal. Absorb residue with an inert absorbent. Remove residual film from hard surfaces with a suitable solvent, observing that solvent's own precautions. Dispose of in accordance with Section 13.

7. Handling and Storage

Precautions for safe handling

- Use with adequate general or local exhaust ventilation, particularly when applying large volumes or working in confined spaces, to control acetic acid released during cure.
- Avoid contact with skin and eyes. Do not breathe vapours from curing product in confined areas.
- Wash thoroughly after handling. Do not eat, drink or smoke in the work area.
- Keep away from heat, sparks, open flame and hot surfaces. Contains a flammable component — do not use near ignition sources.

Conditions for safe storage

- Store unopened in a cool, dry, well-ventilated area below 80 °F (27 °C), out of direct sunlight.
- Shelf life in the original unopened package: 18 months from date of manufacture.
- Keep away from incompatible materials (Section 10), foodstuffs and animal feed. Keep out of reach of children.
- Acetic acid released during cure is corrosive to many metals. Do not store uncured product in unprotected metal containers.
- Product cures on exposure to atmospheric moisture. Reseal partially used containers promptly.

8. Exposure Controls / Personal Protection

Occupational exposure limits

Component	CAS No.	Basis	TWA (8 h)	STEL / Ceiling
Fumed silicon dioxide (amorphous)	112945-52-5	OSHA Z-3	80 mg/m ³ ÷ %SiO ₂	Not established
Dibutyltin diacetate (as Sn)	1067-33-0	ACGIH TLV	0.1 mg/m ³	0.2 mg/m ³
Acetic acid (cure by-product)	64-19-7	OSHA Z-1	10 ppm (25 mg/m ³)	Not established
Acetic acid (cure by-product)	64-19-7	ACGIH TLV	10 ppm	15 ppm
All other components	—	—	None established	None established

Acetic acid is not present in the product as supplied. It is generated during the moisture-cure reaction and is the controlling exposure of concern for confined-space application.

Engineering controls

- Provide general dilution ventilation. Use local exhaust where application is enclosed, overhead, or of large volume.
- Eyewash stations and safety showers should be accessible in the immediate work area.

Personal protective equipment

General requirement	    
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Eye / face protection	Safety glasses with side shields meeting ANSI Z87.1. Chemical splash goggles where splashing is possible.
Hand protection	Chemical-resistant gloves (nitrile recommended). Inspect before use.
Skin / body protection	Long-sleeved work clothing and closed chemical-resistant footwear. Chemical-resistant apron where prolonged contact is possible.
Respiratory protection	Not normally required with adequate ventilation. Where ventilation is inadequate or exposure limits may be exceeded, use a NIOSH-approved respirator with an acid-gas / organic vapour cartridge under a written respiratory protection program meeting 29 CFR 1910.134.
Hygiene measures	Wash hands before breaks and immediately after handling. Remove contaminated clothing before entering eating areas.

9. Physical and Chemical Properties

Appearance	Smooth, uniform non-slumping paste. Supplied in Crystal Clear.
Odor	Pungent — characteristic acetic acid (vinegar) odour
Odor threshold	Not determined
pH	No information available
Melting / freezing point	Not applicable — cured elastomer does not melt
Initial boiling point / range	Not applicable
Flash point	Not determined for the mixture — see Section 2
Evaporation rate	Not applicable
Flammability	Contains hexamethyldisiloxane (Flam. Liq. 2) at 7 – 13 wt%. Classification of the mixture not determined.
Upper / lower flammability limits	Not applicable
Vapor pressure	Not applicable
Vapor density (air = 1)	Not applicable
Relative density (water = 1)	1.18
Solubility in water	Insoluble in water. Soluble in certain organic solvents such as ketones and aromatics.
Partition coefficient n-octanol/water	Not determined for the mixture
Auto-ignition temperature	> 400 °C
Decomposition temperature	> 250 °C
Kinematic viscosity	Not applicable
Viscosity, dynamic	15,000 – 50,000 mPa·s
VOC content	30.4 g/L. Determined with reference to US EPA Method 24 and SCAQMD Method 302-91 / 303-91, calculated per SCAQMD Rule 1168 (b)(28). SGS report GZIN2601000312PL04_EN, 14 February 2026.

10. Stability and Reactivity

Reactivity	Reacts slowly with atmospheric moisture to cure. No hazardous reactivity under normal conditions.
Chemical stability	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Excessive heat, open flame, ignition sources, and premature exposure to moisture.
Incompatible materials	Strong oxidizing agents, strong acids and strong bases. Acetic acid released during cure is corrosive to many metals — do not apply to metal substrates.
Hazardous decomposition products	Cure: acetic acid, released as the moisture-cure by-product. Thermal decomposition above approximately 250 °C: carbon oxides, silicon dioxide, acetic acid and trace organic compounds.

11. Toxicological Information

Likely routes of exposure

Skin and eye contact are the principal routes. Inhalation of acetic acid vapour released during cure is possible in confined spaces. Ingestion is unlikely in normal use.

Acute toxicity — components

Component	Oral LD50	Dermal LD50	Inhalation LC50 (4 h)
Polydimethylsiloxane	> 20,000 mg/kg (mouse)	No data	No data
Hexamethyldisiloxane	No data	12,200 mg/kg (rabbit)	105.97 mg/L (rat)
Dibutyltin diacetate	32 mg/kg (rat)	2,318 mg/kg (rabbit)	No data

Classification of the mixture

Skin corrosion / irritation	Causes skin irritation — Category 2
Serious eye damage / irritation	Causes serious eye irritation — Category 2
Respiratory or skin sensitization	Not classified on available data
Germ cell mutagenicity	Not classified on available data
Carcinogenicity	No component is listed by IARC, NTP or OSHA as a carcinogen.
Reproductive toxicity	Not classified at the stated concentration of dibutyltin diacetate.
STOT — single exposure	Not classified on available data
STOT — repeated exposure	Not classified on available data
Aspiration hazard	Not classified on available data

12. Ecological Information

The mixture is not classified as hazardous to the aquatic environment by the calculation method. Cured product is inert.

Component	Aquatic toxicity	Persistence (water/soil)	Persistence (air)	Bioaccumulation
Hexamethyldisiloxane	LC50 0.46 mg/L, 96 h (fish); NOEC 0.02 mg/L (fish)	High	High	Medium (BCF 1,300)

Component	Aquatic toxicity	Persistence (water/soil)	Persistence (air)	Bioaccumulation
Dibutyltin diacetate	No data	High	High	Low (log Kow 0.81)
Other components	No data	No data	No data	No data

Mobility in soil: hexamethyldisiloxane log Koc 3.00 (20 °C); dibutyltin diacetate log Koc 2.45. Other adverse effects: none known.

13. Disposal Considerations

Waste product	Fully cured product is not a RCRA hazardous waste and may normally be disposed of as ordinary industrial solid waste. Cure uncured product before disposal, or dispose of it through a licensed waste contractor. The generator is responsible for determining waste classification at the point of generation.
Contaminated packaging	Empty containers retain product residue and should be handled as product. Do not reuse. Dispose of or recycle in accordance with local, state and federal regulations.
Regulatory reference	US EPA RCRA (40 CFR 261) and applicable state and local requirements.

14. Transport Information

US DOT (49 CFR)	Not regulated as a hazardous material.
UN number	Not applicable
Proper shipping name	Not applicable
Hazard class / packing group	Not applicable
IMDG (sea)	Not regulated. Not a marine pollutant.
IATA / ICAO (air)	Not regulated.
Environmental hazards in transport	None
Special precautions	Secure containers upright to prevent damage in transit. Store and transport below 80 °F (27 °C). Protect from freezing.

This classification reflects the manufacturer's determination for the product as supplied. A closed-cup flash point has not been determined for the finished mixture, which contains a Category 2 flammable liquid at 7 – 13 wt%; if a flash point below 60 °C is established, the transport classification must be reassessed.

15. Regulatory Information

United States federal regulations

Regulation	Status
TSCA Inventory (40 CFR 710)	All components are listed or exempt.
TSCA §6(h) — PBT chemicals	Tested and passed. SGS report CANPC26001943603, 27 January 2026.
CERCLA reportable quantity (40 CFR 302)	No component listed.
SARA 302 — Extremely Hazardous Substances	No component listed.
SARA 311/312 hazard categories	Acute health hazard.

Regulation	Status
SARA 313 — Toxic Chemical Release Reporting	No component present above de minimis.
Clean Air Act §112 — Hazardous Air Pollutants	No component listed. Acetic acid, the cure by-product, is not a listed HAP.
OSHA HazCom (29 CFR 1910.1200)	This product is classified as hazardous.

State regulations

Regulation	Status
California Proposition 65	No component or cure by-product appears on the Proposition 65 list. Further information: www.P65Warnings.ca.gov .
Massachusetts Right-to-Know	Dibutyltin diacetate (CAS 1067-33-0) is listed. No other component is listed.
New Jersey Right-to-Know	No component listed.
Pennsylvania Right-to-Know	No component listed.
New York City Right-to-Know	No component listed.
VOC rules (SCAQMD 1168 / OTC / CARB)	Complies with SCAQMD Rule 1168. VOC content 30.4 g/L (SGS report GZIN2601000312PL04_EN, 14 February 2026).

International conventions

No component is listed under the Montreal Protocol on Substances that Deplete the Ozone Layer, the Stockholm Convention on Persistent Organic Pollutants, or the Rotterdam Convention on Prior Informed Consent.

International inventories

All components are listed on the US TSCA Inventory, the Canadian Domestic Substances List (DSL) and the China Inventory of Existing Chemical Substances (IECSC). Hydroxyl-terminated polydimethylsiloxane, fumed silicon dioxide and polydimethylsiloxane (dimethicone) are not listed on the European Inventory of Existing Commercial Chemical Substances; polydimethylsiloxane (dimethicone) is also not listed on the Korean (KECL), Japanese (ENCS) or Thai (TECI) inventories. Dibutyltin diacetate is not listed on the Mexican inventory (INSQ). Contact GAUDON USA LLC for status in other jurisdictions.

16. Other Information**Full text of hazard statements**

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists · BCF bioconcentration factor · CAS Chemical Abstracts Service · GHS Globally Harmonized System · HAP hazardous air pollutant · IARC International Agency for Research on Cancer · LC50 lethal concentration 50% · LD50 lethal dose 50% · NIOSH National Institute for Occupational Safety and Health · NTP National Toxicology Program · PEL permissible exposure limit · RCRA Resource Conservation and Recovery Act · STEL short-term exposure limit · STOT specific target organ toxicity · TLV threshold limit value · TSCA Toxic Substances Control Act · TWA time-weighted average · VOC volatile organic compound.

Sources of data and document control

Supersedes	GAUDON Acetic Cure Silicone Sealant Safety Data Sheet, version V2.0.0.1, issued February 2026 — compiled for GAUDON USA LLC by SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd., report no. GZPL2602000588-02B.
Composition and physical property data	Supplied by the manufacturer, Foshan Qiaohong New Material Co., Ltd.

VOC content	SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch — test report GZIN2601000312PL04_EN, 14 February 2026. US EPA Method 24 and SCAQMD Method 302-91 / 303-91.
TSCA §6(h) PBT screening	SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch — test report CANPC26001943603, 27 January 2026.
Toxicological and ecological data	Component-level data from recognised public sources, including the IPCS International Chemical Safety Cards, IARC monographs, the OECD eChemPortal, US EPA IRIS, and the NLM ChemIDplus database.
Regulatory listings	US EPA TSCA Inventory; OSHA 29 CFR 1910.1200 Tables Z-1 and Z-3; ACGIH Threshold Limit Values; California OEHHA Proposition 65 list; SCAQMD Rule 1168.

Disclaimer

This Safety Data Sheet was prepared by GAUDON USA LLC in accordance with OSHA HCS 2024 (29 CFR 1910.1200). The information is drawn from recognised authoritative sources and from data supplied by the manufacturer, and reflects the present state of our knowledge at the date of issue. Because sources vary and conditions of use are outside our control, this document is provided for reference; users must judge its suitability for their own purposes. Before each use, read and follow the current Technical Data Sheet, the product label and this Safety Data Sheet. GAUDON USA LLC makes no warranty as to the results obtained from use of the product and assumes no responsibility for loss, damage or expense arising from its handling, storage, use or disposal. It remains the user's responsibility to determine the product's suitability and safety for the intended application and to comply with all applicable laws and regulations. Direct questions to GAUDON USA LLC at info@gaudon.store.

— End of Safety Data Sheet —