

Silicone Spray

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*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1 Identification

Product identifier

Product Name	Silicone Spray
Cat No.	GDQY20DS329-5
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

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

Emergency phone number

Emergency phone number	1-800-424-9300 (CHEMTREC)
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2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Aerosols	Category 1
Aspiration Hazard	Category 1

Label elements

Hazard pictograms	 
Signal word	Danger

Hazard statements

H222+H229	Extremely flammable aerosol; Pressurized container: may burst if heated
H304	May be fatal if swallowed and enters airways

Precautionary statements

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.

Response

P331	Do NOT induce vomiting.
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Storage

P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
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Other hazards

	Not applicable.
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Hazard description

Physical and chemical hazards

	Extremely flammable, risk of explosion.
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Health hazards

Inhaled	Drowsiness. Unconsciousness.
Ingestion	Due to physical form of this product, considered an unlikely route of entry in commercial/industrial environments.
Skin Contact	ON CONTACT WITH LIQUID: FROSTBITE.
Eye	ON CONTACT WITH LIQUID: FROSTBITE.

Environmental hazards

	Please refer to 12th chapter of SDS.
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3 Composition/information on ingredients

Substance/mixture

	Mixture
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Component	CAS No.	EC No.	Concentration (wt, %)
Solvent naphtha (petroleum), heavy arom.	64742-94-5	265-198-5	50~70
n-Butane	106-97-8	203-448-7	15~35
Propane	74-98-6	200-827-9	5~20
Dimethicone	9006-65-9	618-433-4	1~5

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	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	ON FROSTBITE: rinse with plenty of water, do NOT remove clothes. Refer for medical attention.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Fresh air , rest. Artificial respiration may be needed. Refer for medical attention.
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	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing agent suitable for type of surrounding fire; Small fire: dry chemical or CO2; Large fire: water spray, fog or regular foam; Fire involving tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable extinguishing media	Fire involving tanks: do not direct water at source of leak or safety devices, icing may occur.

Specific hazards arising from the substance or mixture

1	Flammable: will be easily ignited by heat, sparks or flames.
2	Will form explosive mixtures with air.
3	Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/or vapour concentration.
4	Vapours may travel to source of ignition and flash back.
5	Development of hazardous combustion gases or vapor possible in the event of fire.
6	May expansion or decompose explosively when heated or involved in fire.

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.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Avoid breathing vapours and contacting with skin and eye.
2	Beware of vapours accumulating to form explosive concentrations.

3	Vapours can accumulate in low areas.
4	Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5	Use personal protective equipment, do not breathe gas.
6	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
7	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

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	All equipment used in the work should be grounded.
2	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
3	Spray water inhibits vapor or changes the direction of vapor cloud flow.
4	Do not allow spills to come into contact with combustible materials such as wood, paper, oil, etc.
5	Do not touch or cross spills.
6	Isolate the leak area until the gas is exhausted.
7	Cut off the source of the leak as much as possible.
8	Keep leaks in a ventilated place.
9	Do not use water directly to impact spills or sources of leakage.
10	Wear a cold suit when the liquefied gas leaks.
11	A large number of leaks: The warning zone is delineated according to the area affected by the gas, and the unrelated personnel are evacuated from the crosswind and the upwind to the safe zone.
12	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
13	Prevent gas from diffusing through sewers, ventilation systems, and confined spaces.

7 Handling and storage

Precautions for safe handling

1	Avoid inhalation of vapors.
2	Use only non-sparking tools.
3	To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
4	Use explosion proof equipment.
5	Handling is performed in a well ventilated place.
6	Wear suitable protective equipment.
7	Avoid contact with skin and eyes.
8	Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

Control parameters

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
n-Butane	Australia	800	1900	-	-
	Canada - Ontario	-	-	1000	-
	Canada - Québec	800	1900	-	-
	France	800	1900	-	-
	Germany (AGS)	1000	2400	4000	9600
	New Zealand	800	1900	-	-
Propane	Canada - Ontario	1000	-	-	-
	Canada - Québec	1000	1800	-	-
	Germany (AGS)	1000	1800	4000	7200
	USA - OSHA	1000	1800	-	-
	Austria	1000	1800	2000	3600
	Belgium	1000	-	-	-

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	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement	    
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear anti static chemical protective gloves.
Respiratory protection	Appropriate respiratory protective equipment must be worn. When the oxygen concentration is unknown, a self-contained atmosphere-supplying respiratory protective apparatus must be worn.
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.

9 Physical and chemical properties and safety characteristics

Physical and chemical properties

Appearance (physical state, color, etc.)	Transparent liquid
Odor	Pungent odor
Odor threshold	No information available
pH	Not applicable

Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	No information available
Flash point(Closed cup,°C)	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit : No information available ; Lower limit : No information available
Vapor pressure	Not applicable
Vapor density(Air = 1)	Not applicable
Relative density(Water=1)	0.689±0.1
Solubility	No information available
n-octanol/water partition coefficient	Not applicable
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	Not applicable

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with an open flame may cause a fire or explosion.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidantss and halogen.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

| Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Dimethicone	> 20000mg/kg(Mouse)	No information available	No information available
n-Butane	No information available	No information available	658mg/L(Rat)

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
n-Butane	Not Listed	Not Listed	Not Listed
Solvent naphtha (petroleum), heavy arom.	Not Listed	Not Listed	Not Listed
Dimethicone	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed

| Others

Silicone Spray	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
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	May be fatal if swallowed and enters airways(Category 1)
Germ cell mutagenicity	Based on available data, the classification criteria are not met

12 Ecological information

| Acute aquatic toxicity

Acute aquatic toxicity	No information available
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| Chronic aquatic toxicity

Chronic aquatic toxicity	No information available
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| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
n-Butane	Low	Low

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
n-Butane	Low	Log Kow=2.89
Solvent naphtha (petroleum), heavy arom.	Low	BCF=159

| Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
n-Butane	Low	43.79

| Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
n-Butane	Insufficient information, temporarily unable to evaluate
Solvent naphtha (petroleum), heavy arom.	Insufficient information, temporarily unable to evaluate
Dimethicone	Insufficient information, temporarily unable to evaluate
Propane	Not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
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.

14 Transport information

Label and Mark

Transporting Label	
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IMDG-CODE

UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class	2.1
Transport subsidiary hazard class	None
Packing group	The packagings must conform to package instructions of UN number
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1950
UN proper shipping name	Aerosols, flammalbe
Transport hazard class	2.1
Transport subsidiary hazard class	None
Packing group	The packagings must conform to package instructions of UN number

UN-ADR

UN number	1950
UN proper shipping name	AEROSOLS, flammable
Transport hazard class	2.1
Transport subsidiary hazard class	None
Packing group	The packagings must conform to package instructions of UN number

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code	
	Not Available
◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code	
	Not Available
◆ Transport in bulk in accordance with the IGC Code	
	Not Available

Others

Precautions for transport	Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Strictly prohibited shipping or transportation with oxidants, halogens etc. Height shall not exceed the vehicle fence board, and with a triangular wooden pad cards firmly to prevent rolling. Cylinders generally flat, and the bottles should be in the same direction, should not cross. A safety helmet must be fitted for cylinder transport. 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.
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15 Regulatory information

International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
n-Butane	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solvent naphtha (petroleum), heavy arom.	✓	✓	✓	✓	✓	✓	✓	✓	✗
Dimethicone	✗	✗	✓	✓	✓	✓	✗	✓	✗
Propane	✓	✓	✓	✓	✓	✓	✓	✓	✓

[EC inventory]	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]	Korea Existing Chemicals Inventory
[AIIC]	Australian. Inventory of Industrial Chemical (AIIC)
[ENCS]	Japan Inventory of Existing & New Chemical Substances

US chemical inventory

Component	A	B	C	D	E	F	G	H
n-Butane	✗	✗	✗	✓	✓	✓	✓	✗
Solvent naphtha (petroleum), heavy arom.	✗	✗	✗	✗	✗	✗	✗	✗
Dimethicone	✗	✗	✗	✗	✗	✗	✗	✗
Propane	✗	✗	✗	✓	✓	✓	✓	✗

[A]	US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
[B]	US SARA 302- Extremely Hazardous Substance List
[C]	US CERCLA- Hazardous Substances List
[D]	US Massachusetts Right-to-Know Substance List
[E]	US New Jersey Right to Know Hazardous Substance List
[F]	US Pennsylvania Right to Know Hazardous Substance List
[G]	US New York City Right-to-Know Hazardous Substance List
[H]	US California Proposition 65 List

Note:

- “√” Indicates that the substance included in the regulations.
 “x” No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2024/12/18
Revision Date	2024/12/18
Reason for revision	-

Reference

- [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: <https://www.chemportal.org/chemportal/>.
- [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-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	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
EC _x	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P _{OW}	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. 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.