

SECTION 1: Identification of the substance/mixture and of the company

Product Identifier

Product Name: PowerCat™ DBTK

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

Relevant applications identified For industrial use

Details of the supplier of the safety data sheet

Company

Nanjing SiSiB Silicones Co., Ltd.
Guanghua Sci & Tech Industrial Zone,
No. 104, Guanghua Road, Nanjing 210007, P.R.China
Email: SDS@SiSiB.com

Emergency Telephone Number: +86-25-8468-0091

SECTION 2: Hazardous identification

Hazard classification according to GHS

Acute Toxicity – Oral	Category 4
Skin Corrosion/Irritation	Category 1
Sensitization – Skin	Category 1
Serious Eye Damage/Irritation	Category 1
Germ Cell Mutagenicity	Category 2
Reproductive Toxicity	Category 1B
Specific Target Organ Toxicity (Repeated Exposure) Hazardous	Category 2
To The Aquatic Environment – Short-Term (Acute) Hazard	Category 1
Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard	Category 1

GHS Label elements

Hazard pictograms



Signal word: Danger

Hazard statements

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H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H341	Suspected of causing genetic defects
H360	May damage fertility and the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

Prevention

P203	Obtain, read and follow all safety instructions before use.
P260	Do not breathe gas/mist/vapor/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P264+P265	Wash hands and other parts of the body (if related) thoroughly after handling. Do not touch eyes.

Response

P316	Get emergency medical help immediately.
P317	Get medical help.
P318	IF exposed or concerned, get medical advice.
P319	Get medical help if you feel unwell.
P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301+P317	IF SWALLOWED: Get medical help.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P317	IF skin irritation or rash occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.

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P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing.
 Immediately rinse with water for several minutes.
 P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P405 Store locked up.

Disposal

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

Hazard description

Physical and chemical hazards

No information available

Health hazards

Inhaled

Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.

Ingestion

Accidental ingestion of the product may be harmful.

Skin Contact

The product may cause an allergic skin reaction following direct contact with the skin. The product can cause severe skin burns following direct contact with the skin.

Eye

The product can produce severe chemical burns to the eye following direct contact. If timely and appropriate treatment is not available may cause permanent blindness.

Environmental hazards

This product is very toxic to aquatic life. This product is very toxic to aquatic life with long lasting effects. Please refer to 12 chapter of SDS.

SECTION 3: Composition/information on ingredients

Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (weight percent, %)
Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0	100%

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.

Ingestion

Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Inhalation

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

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

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Symptoms may be delayed.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**

Small fire: dry chemical, CO₂ or water spray; Large fire: dry chemical, CO₂, alcohol-resistant foam or water spray; Fire involving tanks, rail tank cars or highway 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. Do not get water inside containers.

Unsuitable extinguishing media

No information available.

Specific hazards arising from the substance or mixture

Fire may produce irritating, poisonous or corrosive gases.

Development of hazardous combustion gases or vapor possible in the event of fire.

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May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

Fight fire from a safe distance, with adequate cover.

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

Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.

Do not touch or walk through spilled material.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Use personal protective equipment, do not breathe gas/mist/vapor/spray.

Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Do not touch or cross spills.

It is recommended that emergency personnel wear a self-contained breathing apparatus with positive pressure and wear anti-corrosion clothing.

Transfer to a tank truck or special collector with a corrosion-resistant pump.

Do not touch broken containers and spills before putting on appropriate protective clothing.

Cut off the source of the leak as much as possible.

Keep leaks in a ventilated place.

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

SECTION 7: Handling and storage

Precautions for safe handling

Handling is performed in a well ventilated place.

Wear suitable protective equipment.

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Avoid contact with skin and eyes.

Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed.

Keep containers in a dry, cool and well-ventilated place.

Keep away from heat/sparks/open flames/hot surfaces.

Store away from incompatible materials and foodstuff containers.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Occupational Exposure limit values No relevant regulations

Biological limit values No relevant regulations

Monitoring methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

GBZ/T 300 series standard Determination of toxic substances in workplace air.

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations and safety showers are close to the workstation location.

Use explosion-proof electrical/ventilating/lighting/equipment.

Set up emergency exit and necessary risk-elimination area.

Personal protection equipment

General requirement



Eye protection

Must wear appropriate anti-corrosion goggles.

Hand protection

Must wear acid and alkali resistant chemical protective gloves.

Respiratory protection

Must wear appropriate personal respiratory protective equipment.

Skin and body protection

Must wear acid and alkali resistant chemical protective clothing.

SECTION 9: Physical and Chemical Properties

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Physical and chemical properties

Physical state	Liquid
Colour	Yellow transparent
Odor	No information available
Odor threshold	No information available
pH	No information available
Melting point/freezing point (°C)	25.1
Initial boiling point and boiling range (°C)	150
Flash point (Closed cup, °C)	No information available
Evaporation rates	No information available
Flammability	No information available
Upper/lower explosive limits[% (v/v)]	
Upper limit	No information available
Lower limit	No information available
Vapor pressure	0.038Pa (25°C)
Relative vapour density (Air = 1)	No information available
Relative density (Water = 1)	1.237 (20°C)
Solubility	Partly miscible with water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature (°C)	No information available
Decomposition temperature (°C)	No information available
Kinematic viscosity	No information available
Particle characteristics	Not applicable

SECTION 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

No information available.

Conditions to avoid

Incompatible materials, heat, flame and spark.

Incompatible materials

No information available.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute toxicity

Acute toxicity

No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Dibutylbis(pentane-2,4-dionato-O,O')tin	Not Listed	Not Listed

Others

Dibutylbis(pentane-2,4-dionato-O,O')tin(Component)
Skin corrosion/irritation

Causes severe skin burns and eye damage(Category 1)

Serious eye damage/irritation

Causes serious eye damage(Category 1)

Skin sensitization

May cause an allergic skin reaction(Category 1)

Respiratory sensitization

Based on available data, the classification criteria are not met

Reproductive toxicity

May damage fertility and the unborn child(Category 1B)

STOT-single exposure

Based on available data, the classification criteria are not met

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure (Category 2)

Aspiration hazard

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Suspected of causing genetic defects(Category 2)

SECTION 12: Ecological Effects

Acute aquatic toxicity

Acute aquatic toxicity

No information available

Chronic aquatic toxicity

Chronic aquatic toxicity

No information available

Persistence and degradability

Persistence and degradability

No information available

Bioaccumulative potential

Bioaccumulative potential

No information available

Mobility in soil

Mobility in soil

No information available

Results of PBT and pub assessment

Component	Results of PBT and pub assessment [according to (EC) No 1907/2006]
Dibutyltins (pentane-2,4-dio NATO-O, O') tin	No information available

SECTION 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.

SECTION 14: Transport Information



Land transport

IMDG-CODE

UN number	1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S.
Transport hazard class	8
Transport subsidiary hazard class	None
Packing group	III
Marine pollutant (Yes or no)	Yes

ICAO/IATA-DGR

UN number	1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S.
Transport hazard class	8
Transport subsidiary hazard class	None
Packing group	III

UN-ADR

UN number	1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S.
Transport hazard class	8
Transport subsidiary hazard class	None
Packing group	III

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 chemical inventory

Component: Dibutylbis(pentane-2,4-dionato-O,O')tin

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 ✓

AIICS Australian. Inventory of Industrial Chemical (AIICS) ✓

ENCS Japan Inventory of Existing & New Chemical Substances ✓

Note:

“✓” Indicates that the substance included in the regulations.

SECTION 16: Other Information

Further information

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.