

SAFETY DATA SHEET

Date Prepared : 11/08/2012
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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : SC970 (Silicone-rubber base flame retardant adhesive)
Manufacturer : Dexerials Corporation
Address : 1724 Shimotsuboyama, Shimotsuke-shi, Tochigi 323-0194, Japan
Phone: +81-285-39-7950 Fax: +81-285-47-3242

SECTION 2. HAZARDS IDENTIFICATION

GHS classification

Physical hazards : Not classified for physical hazards.
Health hazards : Not classified for Health hazards.
Environmental hazards : Not classified for hazards to the environment.
Pictograms : Not applicable
Signal word : Not applicable
Hazard statements : Not applicable

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Precautionary statements-(Prevention)

Do not handle until all safety precautions have been read and understood.
After handling wash hands thoroughly
Avoid inhaling gas.

Precautionary statements-(Response)

If on skin: Wash with plenty of soap and water.
Get Medical advice/attention if you feel unwell.

Precautionary statements-(Storage)

Store in a closed container, cool and well-ventilated area
Be careful not to absorb moisture after opening.

Precautionary statements-(Disposal)

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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Preparation : Mixture components

Ingredient name	Content(%)	CAS No.
Quartz	50~60	14808-60-7
Titanium, Bis(ethyl acetoacetato) -diisopropoxy	1~10	27858-32-8
Titanium dioxide	<1	13463-67-7
Carbon Black	<1	1333-86-4

Components contributing to the hazard
No Information

SECTION 4. FIRST AID MEASURES

Inhalation

Remove to fresh air. If not breathing give artificial respiration.

If breathing is difficult, give oxygen.

Eye contact

In case of contact with eyes, rinse immediately with plenty of water over 15minutes.

If irritation persists, seek medical attention.

Skin contact

Flush with large amounts of water. Use soap if available.

Polluted wears/shoes shall be taken off. If irritation persists, seek medical attention.

Ingestion

Wash out mouth with water provided person is conscious.

Call a physician.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Water, powder, foam, dry chemical extinguishing agent, carbon dioxide gas.

Prohibited Extinguishing media

Rod shape water Jet

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Protection of fire-fighters

Use personal protective equipment as required Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6. ACCIDENTAL RELESE MEASURES

Personnel precautions, protective equipment and emergency procedures

Do not touch or walk-through spilled material.

Wear appropriate protection. Evacuate no essential personnel.

Environmental precautions

Prevent release to the environment.

Collection and neutralization

Absorb spilled material with sand, diatom earth or nonflammable inert absorbent, or cover it.

After then collect it in airtight container. Later abolish them.

Use clean non-sparking tools to collect absorbed material.

Methods and materials for containment and cleaning up

All equipment used when handling the product must be grounded.

Stop leak if you can do it without risk.

Cover the spilled material with dry sand, diatom earth or nonflammable inert absorbent,

Cover with a sheet and prevent from scattering, do not wet by rain.

Preventive measures for secondary accident

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

Prevent entry into waterways, sewers, basements or confined areas.

Floor may become slippery due to spilled materials. Wash area to prevent slipping.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Suitable ventilating equipment should be installed.

Take precautionary measures against static discharges.

Safety treatments

- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use personal protective equipment as required.
- Keep this product away from heat, sparks, or open flame.
- Avoid contact with skin and eyes.

Safety handling precautions

- Avoid contact with skin, eyes or clothing Use personal protective equipment as required.

Storage

- Storage conditions Store away from sunlight in well-ventilated place at room temperature.
- Avoid water leakage, acid contact, high temperature and humidity environment.

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Control parameters e.g., occupational exposure limit values or biological limit values

Adopted value

(Quartz)	: ACGIH	TWA: 0.025mg/m ³
(Carbon Black)	: ACGIH	TWA: 3mg/m ³
(Titanium dioxide)	: ACGIH	TWA: 10mg/m ³

As far as this mixture is concerned, Titanium dioxide, Silica and Carbon Black can be little possibility to be inhaled because it is mixed in and not powdery.

Appropriate engineering controls

- Suitable ventilating equipment should be installed.
- Provide an emergency eye wash fountain in the immediate work and storage area

Individual protection measures, such as personal protective equipment

Respiratory protection

- In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

- Wear impervious glove made from chloroprene, as appropriate.

Eye protection

- Wear protective eyeglasses or chemical safety goggles.

Skin and body protection

- To prevent any contact, wear impervious clothing such as apron, boots, or whole-body suits made from chloroprene, as appropriate.

Safety and Health measures

- Do not eat, drink, or smoke when using this product.
- Wash thoroughly after handling.
- Take of contaminated clothing and wash before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Form	:	Paste
	Color	:	Gray
	Odor	:	Faint
Boiling point		:	No data available
Melting point		:	No data available
Flammability		:	No data available
Explosion characteristics		:	No data available
	Lower limit	:	No data available
	Upper limit	:	No data available
Flash point		:	63°C

Ignition point	:	No data available
Decomposition temperature	:	No data available
pH	:	No data available
Kinematic viscosity	:	> 20.5 mm ² /s (40 °C)
Solubility	:	Insoluble in water
n-octanol/Water		
partition coefficient	:	No data available
Vapor pressure	:	No data available
Specific gravity / density	:	1.63g/cm ³ (23°C)
Particle characteristics	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Stability

Hydrolysis mildly occurs at room temperature in the presence of moisture, and release alcohol and consequently polymerize.

Conditions to avoid

Keep away from moisture. Keep away from heat, sparks and open flame.

Incompatibility

Strong acids and bases agent

Hazardous decomposition products

Carbon dioxide, Silicon dioxide, Formaldehyde.

Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

SECTION 11. TOXICOLOGICAL INFORMATION

Carcinogenic effects

IARC

(Quartz)	:	IARC-Gr.1	;	Carcinogenic to humans.
(Carbon Black)	:	IARC-Gr.2B	;	Possibly carcinogenic to humans.
(Titanium dioxide)	:	IARC-Gr.2B	;	Possibly carcinogenic to humans.

ACGIH

(Carbon Black)	:	ACGIH-A4	;	Not Classifiable as a Human Carcinogen.
(Titanium dioxide)	:	ACGIH-A4	;	Not Classifiable as a Human Carcinogen.

Numerical measures of toxicity (such as acute toxicity estimates).

Oral toxicity

(Carbon Black)	:	rat	LD50	> 8000 mg/kg
(Titanium dioxide)	:	rat	LD50	>10000 mg/kg

Dermal toxicity

(Carbon Black)	:	rabbit	LD50	3000 mg/kg
(Titanium dioxide)	:	hamster	LD50	10000 mg/kg

Inhalation toxicity

(Titanium dioxide)	:	rat	LC50	5.1 mg/L
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological information

Unknown

Other harmful information

Unknown

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be made in accordance with federal, national and local regulations.

SECTION 14. TRANSPORT INFORMATION

UN NO, UN CLASS

UN NO.	:	Not applicable
Class	:	Not applicable
Packing Group	:	Not applicable
Proper shipping name	:	Not applicable
ERG GUIDE NO	:	Not applicable

SECTION 15. REGULATORY INFORMATION

Export control law in Japan: Under control item of Catch-all regulation.

Other regulatory information

We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

SECTION 16. OTHER INFORMATION

Reference

SDS of each component issued by material makers

The information herein is the best of our knowledge and is only related to this specific product. No warranty, either expressed or implied, is made with respect to such information. The recommended handling procedures are believed to be generally applicable. However, it is user's responsibility to review these recommendations in the specific content of the intended use. We reserve the right to revise this SDS as new information become available. It is recommended to ask for the latest version to our sales division.

End of SDS