

SAFETY DATA SHEET

Date Prepared : 02/08/2005
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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : **SC608Z2** (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 and Chemical hazards:

Flammable liquids : Category 2 Highly flammable liquid and vapor

Health hazards

Acute toxicity Vapor

inhalation : Category 4 Harmful if inhaled Vapor

Skin corrosion/irritation : Category 2 Causes skin irritation

Serious eye damage

/eye irritation : Category 2A Causes serious eye irritation

Carcinogenicity : Category 1B May cause cancer

Reproductive toxicity : Category 1A +Effects on or via lactation
May damage fertility or the unborn child
May cause harm to breast-fed children

Specific target organ

toxicity-single exposure : Category 1 Causes damage to Central nervous system

Specific target organ

toxicity-single exposure : Category 3 May cause drowsiness or dizziness
May cause respiratory irritation

Specific target organ

toxicity-repeated exposure : Category 1 Causes damage to kidney, central nervous system through prolonged or repeated exposure

Specific target organ

toxicity-repeated exposure : Category 2 May cause respiratory, nervous system irritation through prolonged or repeated exposure

Environmental hazards

Acute hazards to

the aquatic environment : Category 2 Toxic to aquatic life

Acute hazards to

the aquatic environment : Category 3 Harmful to aquatic life with long lasting effects

The hazards identification, which is not statement at description above, Not classified or Classification not possible.

Label elements、 Pictograms or Symbols



Signal Words: **Danger**

Precautionary Statement

Prevention:

Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands thoroughly after handling.
In case of inadequate ventilation wear respiratory protection.
Do not breathe dust/fume/gas/mist/Vapors/spray.
Avoid contact during pregnancy/while nursing.
Do not eat, drink or smoke when using this product.

Response:

If on skin: Wash with plenty of soap and water.
If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If in eyes and the irritation persist: Get medical advice/attention.
Get Medical advice/attention if you feel unwell.

Storage:

Store in cool and well-ventilated area.
Store locked up.

Disposal:

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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Single substance/Mixtures : Mixtures

<u>Ingredient name</u>	<u>Content(%)</u>	<u>CAS No.</u>	<u>MITI No. Japan</u>
Toluene	33	108-88-3	(3)-2
Antimony trioxide	5	1309-64-4	(1)-543
Methyl ethyl ketone	5-10	78-93-3	(2)-542
Amorphous silica	0-5	112945-52-5	
Titanium dioxide	0-5	13463-67-7	(1)-558
Fire retardant of			
Bromine compound	5-10	Trade Secret	
Inorganic Filler	10-20	Trade Secret	
Adhesive Promoter	0-5	Trade Secret	
Polyester resins	20-30	Trade Secret	

SECTION 4. FIRST AID MEASURES

Inhalation

Remove casualty to fresh air and keep at rest.
Get medical attention/advice immediately.

Skin contact

Gently wash with plenty of soap and water.
If skin irritation occurs, seek medical advice/attention.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.

Ingestion

Rinse mouth.
Call a doctor/physician if you feel unwell.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Powder, CO2, Fine water spray, Dry sand or Alcohol Resistant Foam.

Prohibited Extinguishing media

Rod shape water Jet

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.
Heating may cause container explosion.
Highly flammable, ignite easily due to heat, spark or flame.
Vapor explosion hazard exists indoors, outdoors, or in sewers.

Special protective equipment and precautions for firefighters

Move container from fire area if it can be done without risk.
Wear appropriate respirators and chemical resistant clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personnel precautions, protective equipment and emergency procedures

Do not touch or walk-through spilled material.
Wear appropriate protection.
Evacuate non-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

Preventive measures

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.

Storage conditions

Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

Keep away oxidizing agent.

Keep container tightly closed, store well ventilated and cool area.

Store locked up

SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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

Control value

(Toluene) : Japan control value= \leq 20 ppm

(Methyl ethyl ketone) : Japan control value= \leq 200 ppm

Adopted value

(Toluene) : JCGIH 50 ppm; 188 mg/m³

(Antimony trioxide) : JCGIH 0.1 mg-Sb/m³

(Methyl ethyl ketone) : JCGIH 200 ppm; 590 mg/m³

(Toluene) : [ACGIH] TWA: 20 ppm

(Titanium dioxide) : [ACGIH] TWA: 10 mg/m³

(Methyl ethyl ketone) : [ACGIH] TWA: 200 ppm STEL: 300ppm

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

Appropriate engineering controls

Use explosion-proof electrical/ventilating /lighting equipment.

Take precautionary measures against static discharge.

Provide an emergency eye wash fountain and quick drench shower 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	:	Liquide
	Color	:	White
	Odor	:	Solvent Odor
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		:	3.6°C(Seta flash Closed—Cup Apparatus)
Ignition point		:	No data available
Decomposition temperature		:	No data available
pH		:	No data available
Kinematic viscosity		:	No data available
Solubility		:	Insoluble in water
n-octanol/Water			
partition coefficient		:	No data available
Vapor pressure		:	No data available
Specific gravity / density		:	1.25
Particle characteristics		:	No data available

SECTION 10. STABILITY AND REACTIVITY

Stability

Stable under normal handling conditions.

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

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Vapors may cause dizziness or suffocation.

Skin corrosion/irritation

Inhalation or contact with material may irritate or burn skin and eyes.

Carcinogenic effects

IARC

(Toluene) : IARC-Gr.3 ; Not Classifiable as a Human Carcinogen.

(Antimony trioxide) : IARC-Gr.2B ; Possibly carcinogenic to humans.

(Titanium dioxide) : IARC-Gr.2B ; Possibly carcinogenic to humans.

ACGIH

(Toluene) : ACGIH-A4 ; Not Classifiable as a Human Carcinogen.

(Antimony trioxide) : ACGIH-A2 ; Suspected human carcinogen.

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

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

Oral toxicity data

(Toluene) : rat LD50 5000 mg/kg

(Methyl ethyl ketone) : rat LD50 2737 mg/kg

Dermal toxicity data			
(Toluene)	: rabbit	LD50	14100 mg/kg
(Methyl ethyl ketone)	: rabbit	LD50	13000 mg/kg
Inhalation toxicity data			
(Toluene)	: rat	LC50	4000 ppm/4H
(Methyl ethyl ketone)	: rat	LC50	11700 ppm/4H

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological information

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

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.	: 1133
Class	: 3
Packing Group	: III (Within net amount per package is 30L)
Proper shipping name	: ADHESIVES containing flammable liquid
ERG GUIDE NO	: 128

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