

Material Safety Data Sheet
(1907/2006/EC)

WD Silicone Co., Ltd.

No.060 (WD-60)

Version: 1.1

Date of Print: 29.04.2011

Date of Update: 25.04.2011

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product Name (3-Glycidyoxypropyl)trimethoxysilane
Product No. 60
Brand WD
CAS No. 2530-83-8

1.2 Relevant identified uses of the substance or mixture and uses advised against
Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company WD Silicone Co., Ltd.
Maple Garden, Wuhan University
Wuhan, Hubei, China
Telephone +86-27-87215023
Fax +86-27-87214371
Email Address Sale@wdsilicone.cn

1.4 Emergency telephone number

Emergency telephone No. +8618971680837

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Eye irritation (Category 2)
This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word Warning

Hazard statement(s)
H319 Causes serious eye irritation.

Precautionary statement(s)
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements
none

2.3 Other hazards

This material is capable of forming methanol if hydrolyzed. Methanol vapour may cause dizziness, drowsiness, disturbances of vision, and tingling, numbness, and shooting pains in the hands and forearms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms 3-(2,3-Epoxypropoxy)propyltrimethoxysilane
Formula $C_9H_{20}O_5Si$
Molecular Weight 236.34 g/mol

Component	CAS No.	EC No.	Concentration
(3-Glycidyoxypropyl)trimethoxysilane	2530-83-8	219-784-2	-

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

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

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of immediate medical attention and special treatment needed

no data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, silicon oxides.

5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose according to local regulations. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, dry and well-ventilated place. Containers which are opened must be carefully resealed. Moisture sensitive.

7.3 Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use safety goggles with side-shields for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	: Colorless transparent liquid
Odour	: no data available
Odour Threshold	: no data available
pH	: no data available
Melting/freezing point	: < -70 °C
Boiling point	: > 260 °C @ 101.3 kPa (lit.)
Flash point	: 110 °C (closed cup)
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: 0.43 % (V)
Vapour pressure	: 0.003 kPa @ 100 °C
Vapour density	: no data available
Relative density	: 1.07 g/ml @ 25°C
Water solubility	: no data available
Autoignition temperature	: no data available
Decomposition temperature	: no data available
Viscosity	: 3 cSt @ 25 °C
Explosive properties	: no data available
Oxidizing properties	: no data available

9.2 Other safety information

no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Ring-opening reaction may happen under acid or basic condition.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Heat, flames, sparks and humidity.

10.5 Incompatible materials

Oxidizing agents, acids, bases and moisture.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, silicon dioxide. It gives off methanol when contact with water.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

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LD50 Oral - rat – 8030 mg/kg
LD50 Dermal - rabbit - 4248 mg/kg

Skin corrosion/irritation

Serious eye damage/eye irritation

Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. Causes skin irritation.

Eyes

Causes eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: VV4025000.

Caution has to be taken when the component undergoes hydrolysis as it will release methanol.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - Cyprinus carpio (Carp) - 55 mg/l - 96 h
LC0 - Cyprinus carpio (Carp) - 30 mg/l - 96 h
Toxicity to daphnia EC50 - Daphnia magna (Crustacea) - 473 mg/l - 48 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

IMDG

IATA

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14.1	UN No.	-	-	-
14.2	UN proper shipping name	Not dangerous goods		
14.3	Transport hazard class	-	-	-
14.4	Packaging group	-	-	-
14.5	Environmental hazards	no	(Marine pollutant)	no
14.6	Further Information	no data available		

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

15.3 Other International Regulations

Listed on or in accordance with the following inventories:

- IECSC - China
- PICCS - Philippines
- ECL - Korea
- AICS - Australia
- DSL - Canada
- TSCA - USA
- ENCS - Japan

16. OTHER INFORMATION

The above information does not purport to be all inclusive and shall be used only as a guide.



WD Silicone