

date of issue : 25/03/2013

## Safety Data Sheets

### 1. Product and Company Identification

Product name :Sealer #556UR White

Name of supplier :SOLAR CO., LTD.

Address :1-7, Nunobiki-cho-2-chome, Chuo-ku, Kobe, Hyogo-Pref. 651-0097 JAPAN

Division :R & D DEPT.

Phone :+81-790-49-2366

FAX :+81-790-49-1588

Product code(SDS NO) :EN503293-3

### 2. Hazards identification

GHS classification and label elements of the product

GHS classification

#### HEALTH HAZARDS

Skin corrosion/irritation : Category 1

Serious eye damage /eye irritation : Category 1

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Carcinogenicity : Category 2

Specific target organ toxicity-single exposure : Category 2

Specific target organ toxicity-repeated exposure : Category 2



Signal word : Danger

#### HAZARD STATEMENT

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

Suspected of causing cancer

May causes damage to organs after single exposure.

May causes damage to organs following repeated exposure.

#### PRECAUTIONARY STATEMENT

##### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/face protection.

Use personal protective equipment as required.

In case of inadequate ventilation wear respiratory protection (as specified by the manufacturer/supplier or the competent authority.)

##### Response

Immediately call a POISON CENTRE or doctor/physician.

Get medical advice/attention if you feel unwell.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF INHALED: Remove victim 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 exposed or concerned: Get medical advice/attention.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

Storage

Store locked up.

Disposal

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

3. Composition/Information on Ingredients

Substance/Preparation :Preparation

Ingredient name	content(%)	CAS No.	PRTR law No, Japan
Urethane resin	20 - 25	Non Public	-
Isophorone diisocyanate	2.3	4098-71-9	1-034
Plasticizer	20 - 25	Non Public	-
Filler · Pigment	45 - 50	Non Public	-
Titanium dioxide	1 - 5	13463-67-7	-
Calcium oxide	1 - 5	1305-78-8	-
Additive	0.1 - 1	Non Public	-

4. First-aid measures

IF INHALED

Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

IF ON SKIN(or hair)

Never use solvent or thinner.  
 Wash with plenty of soap and water.  
 If you observe unusual symptom, have irritation/pain and/or feel unwell, seek medical advice.

IF IN EYES :

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.

IF SWALLOWED

Rinse mouth.  
 Do NOT induce vomiting.  
 Immediately call a POISON CENTER or doctor/physician.

5. Fire-fighting measures

Suitable extinguishing media

In case of fire, use water mist, foam, dry powder or CO2.

Specific fire-fighting measures

Use appointed fire extinguisher.  
 Remove flammable matters quickly from nearby.  
 Apply water from a safe distance to cool and protect surrounding area.

Special protective equipment and precautions for fire-fighters

Fire extinguishing work has to be done from windward.  
 Wear proper protective equipment.

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## 6. Accidental Release Measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

Keep unauthorized personnel away.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for neutralization, containment and cleaning up

Place in a covered container.

Use non-sparking tools to collect absorbed material.

Preventive measures for secondary accident

Prepare extinguishers before catching fire.

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## 7. Handling and Storage

Precautions for safe handling

Preventive measures

Use personal protective equipment as required.

Take precautionary measures against static discharge.

Safety Measures/Incompatibility

Handle in good ventilation.

Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep container tightly closed.

Protect from sunlight. Store in a well-ventilated place.

Keep container dry.

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## 8. Exposure Controls/Personal Protection

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

Adopted value

(Calcium oxide)

ACGIH(1990) TWA: 2mg/m<sup>3</sup> (URT irr)

(Titanium dioxide)

ACGIH(1992) TWA: 10mg/m<sup>3</sup> (LRT irr)

(Isophorone diisocyanate)

ACGIH(1985) TWA: 0.005ppm (Resp sens)

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Exhaust/ventilator should be available.

Protective equipment

Respiratory protection

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective gloves/clothing

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## 9. Physical and Chemical Properties

Physical properties

Appearance :paste

Color :white

Flash point :>200 (Seta closed style) (Ref.value)  
Specific gravity :ca 1.35

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## 10. Stability and Reactivity

### Stability

Stable under normal storage/handling conditions.

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## 11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics

### Acute toxicity

#### Oral toxicity component(s) data

(Calcium oxide)

mouse LD50 =3059 mg/kg (RTECS, 2004)

(Isophorone diisocyanate)

rat LD50 > 2645 mg/kg (SIDS, 2006)

#### Inhalation toxicity component(s) data

(Isophorone diisocyanate)

mist : rat LC50=0.031 mg/L/4hr (SIDS, 2006)

### Irritant properties

#### Skin corrosion/Irritation component(s) data

(Titanium dioxide)

human 0.3mg/3D-I ; MILD

### Allergenic and sensitizing effects

(Isophorone diisocyanate) human : SIDS, 2006

### Skin sensitization

(Isophorone diisocyanate) SIDS, 2006

### Carcinogenic effects

(Titanium dioxide)

IARC-Gr.2B ; Possibly carcinogenic to humans.

(Titanium dioxide)

ACGIH-A4(1992) : Not Classifiable as a Human Carcinogen

### Delayed and immediate effects and also chronic effects from short- and long-term exposure

#### Specific target organ toxicity (single exposure cat.2)

(Calcium oxide) respiratory apparatus/system (HSDB, 2005)

#### Specific target organ toxicity (repeated exposure cat.1)

(Isophorone diisocyanate) respiratory apparatus/system

(Calcium oxide) respiratory apparatus/system (ACGIH, 2001)

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## 12. Ecological Information

### Ecotoxicity

#### Aquatic toxicity

(Calcium oxide)

Fish (Cyprinus carpio) LC50=1070mg/L/96hr (IUCLID, 2000)

(Titanium dioxide)

Crustacea (Daphnia magna) EC50 > 1000mg/L/48hr (AQUIRE, 2003)

(Isophorone diisocyanate)

Crustacea (Daphnia magna) EC50=83.7mg/L/24hr (CERI, 2002)

#### Water solubility

(Calcium oxide)

1.2 g/L (HSDB, 2004)

(Titanium dioxide)

none (HSDB, 2004)

(Isophorone diisocyanate)

reaction (ICSC, 1999)

## Persistence and degradability

(Isophorone diisocyanate)

OECD test guide line 301E\_Degradation/28days under aerobic sewer : 62% (CERI hazard data, 2002)

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13. Disposal Considerations

## Disposal methods

Avoid release to the environment (- if this is not the intended use).

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

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14. Transport Information

## UN No, UN CLASS

Not applicable to UN NO.

## Sea pollutants control law

Noxious Liquid ; Cat. X :Isophorone diisocyanate

Noxious Liquid ; Cat. Z :Titanium dioxide

## Special precautions in connection with transport or conveyance

Follow instruction in Handling &amp; Storage.

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15. Regulatory Information

## Industrial Safety and Health law, Japan

Chemical name et al should be informed :Calcium oxide ;Titanium dioxide  
;Isophorone diisocyanate

## PRTR law, Japan

Listed chemicals Gr.1 :Isophorone diisocyanate

## Fire protection law, Japan

Listed flammables : flammable solids ; (limited qty) 3000kg

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16. Other information

## Reference Book

Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 17th edit. UN

2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2011 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/monoeval/grlist.html>

Supplier's data/information

ezCric(Retrieval System/Japan Chemical Database Ltd.)

## Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own test