

## SAFETY DATA SHEET

### SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name (Product name) Sealer 556UR  
Product number 503293  
SDS Number rdjp173-4  
Manufacturer/Supplier SOLAR CO.,Ltd.  
Address 1-7,Nunobiki-cho-2-chome,Chuo-ku Kobe 651-0097, Japan  
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### SECTION 2- HAZARDS IDENTIFICATION

GHS classification

HEALTH HAZARDS Serious eye damage/eye irritation Category2A

Carcinogenicity Category2

Specific target organ toxicity (Single exposure)  
Category2 (Respiratory system)

Specific target organ toxicity(repeated exposure)  
:Category2 (Respiratory system)

ENVIRONMENTAL HAZARDS Hazardous to the aquatic environment (Acute)  
:Category3

Hazardous to the aquatic environment (Long term)  
:Category3

Hazards not stated here are "Not applicable" or  
"Classification not possible".

GHS label

Symbols



Signal words Warning

Hazard statements  
H319 Causes serious eye irritation  
H351 Suspected of causing cancer  
H371 May cause damage to organs

H373 May cause damage to organs through prolonged or repeated exposure

H402 Harmful to aquatic life

H412 Harmful to aquatic life with long-lasting effects

#### Precautionary statements

##### **【Prevention】**

Obtain special instructions before use.(P201)

Do not handle until all safety precautions have been read and understood.(P202)

Do not breathe gas.(P260)

Do not breathe mist/vapours/spray.(P260)

Do not breathe dust/fumes.(P260)

Wash hands thoroughly after handling. (P264)

Wash eyes thoroughly after handling. (P264)

Do not eat, drink or smoke when using this product.(P270)

Avoid release to the environment. (P273)

Wear protective gloves/eye protection/face protection. (P280)

##### **【Response】**

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

If exposed: Call a POISON CENTER or doctor/physician.(P308+P313)

Immediately call a POISON CENTER/doctor.(P310)

Get medical advice/attention if you feel unwell.(P314)

Specific treatment.(P321)

If eye irritation persists: Get medical advice/attention. (P337+P313)

If experiencing respiratory symptoms call a POISON CENTER or doctor/physician. (P342+P311)

Wash contaminated clothing before reuse. (P363)

##### **【Storage】**

Store locked up.(P405)

**【Disposal】**

Dispose of contents/container in accordance with the Waste Disposal and Public Cleansing Law and related laws and regulations. (P501)

**SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS**

Classification of the substance or mixture: Mixture

Chemical name or generic name	Concentration or concentration ranges	Chemical formula	Reference number in gazetted list in Japan		CAS No.
			METI No.	ISHL No.	
			(ENCS No.)		
See below for materials related to three lows of the SDS(Note 1)					

The Industrial Safety and Health Law

Dangerous goods and hazardous substances should be notified name. (Act: Article 57-2, Enforcement Ordinance: Article 18-2-1/2 Attached Table 9)

Calcium oxide (Designated number by Laws: 190) (Less than 5%)

Titanium oxide(IV) (Designated number by Laws: 191) (Less than 5%)

**SECTION 4- FIRST AID MEASURES**

Inhalation

In case of feeling unwell by inhalation of vapor/gas, move into fresh air and keep at rest, and seek medical assistance.

If breathing is difficult or not breathing, give artificial respiration immediately. Get medical advice/attention immediately.

Skin contact

Remove/Take off all contaminated clothing or shoes immediately.

Gently wash with plenty of soap and water. Do not use solvents, thinner.

If abnormal changes are observed in appearance, or irritant or pain persists, or if you feel unwell, seek medical assistance.

Eyes contact	<p>Flush carefully with plenty of clean water for at least 15 minutes immediately. Consult an ophthalmologist.</p> <p>Hold eyelids open and away from eyeballs with fingers to ensure that all surfaces are flushed thoroughly.</p> <p>Remove contact lenses, if present and easy to do.</p>
Ingestion	<p>Rinse mouth well with clean water.</p> <p>Do not induce vomiting unless.</p> <p>Never give anything by mouth to an unconscious person.</p> <p>Get medical advice/attention immediately.</p>
Protection for first-aides	<p>Wear safety equipments as indicated in section 8 (EXPOSURE CONTROL/PERSONAL PROTECTION) during handling.</p>

#### SECTION 5- FIRE FIGHTING MEASURES

Suitable extinguishing media	<p>In case of fire, use water spray, foam, powder, carbon dioxide and dry sand.</p>
Special fire fighting procedures	<p>Use designated extinguishing media.</p> <p>Extinguish the fire from the windward side of the fire.</p> <p>Remove surrounding combustible materials immediately.</p> <p>Cool surrounding equipment with water spray.</p>
Special protective equipment and precautions for fire-fighters	<p>Wear suitable Self-Contained Breathing Apparatus (SCBA), Chemical proof protective clothing.</p>

#### SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal precautions (protective equipment and emergency measures)	<p>Provide ventilation adequately until finishing process.</p> <p>Wear suitable protective equipment as indicated in section 8 during handling.</p> <p>Exclude non-essential personnel.</p>
Environmental precautions	<p>Prevent from entering into drains, ditches, basement or closed place.</p>

Methods and materials for containment and cleaning up      Collect in a sealable container.

Prevention measures against secondary accident      Properly treat deposits, waste and etc., on the basis of the applicable laws and regulations.

Remove the sources of ignition promptly.

## SECTION 7- HANDLING AND STORAGE

Handling      Technical measures      Take equipment measures and wear suitable protective equipment as indicated in section 8 (EXPOSURE CONTROL/PERSONAL PROTECTION) .

Prohibit the use of the high temperature, spark and fire of around.

Precautions for safe handling      Close container tightly after each use.

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

Wash body, face, hands, eyes thoroughly after handling.

Storage      Appropriate storage conditions      Keep container tightly closed.

Store in a dark, dry, cool and well ventilated area.

## SECTION 8- EXPOSURE CONTROL/PERSONAL PROTECTION

Component	Management Concentration	Allowable concentration (Society for Occupational Health)	Allowable concentration (ACGIH)
Titanium oxide(IV)		0.3mg/m <sup>3</sup> ; Dust allowable concentration degree; 1mg/m <sup>3</sup> ; Dust(2nd kind) Total dust:4mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup> , STEL -
Calcium oxide			TWA 2 mg/m <sup>3</sup> , STEL -

Facility Protection		If steam or the fume and mist is generated, install a local exhaust system.
		Install shower, hand-wash, cleansing facilities close to handling location, and clearly display the position.
Personal protection equipments	Respiratory protection	If ventilation is not good, use gas masks for organic vapor.
	Hand protection	Use impermeable protective groves (rubber groves).
	Eye protection	Wear safety glasses (safety glasses with side wall, safety goggles).
	Skin and body protection	Wear work clothes, boots and apron.

#### SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical form	Paste
	Color	White
Flush point		>200°C (SETA closed-cup/analogy value)
Specific gravity (Density)		ca 1.35

#### SECTION 10- STABILITY AND REACTIVITY

Stability	Stable at normal conditions of handling.
Possibility of hazardous reaction	No information available.
Condition to avoid	Avoid contact with amine, water, and alcohol for reaction.  When contact with water in a sealed container, May generate carbon dioxide gas and may increase pressure inside the container.
Hazardous decomposition products	No information available.

#### SECTION 11- TOXICOLOGICAL INFORMATION

Serious eye damage/eye irritation	Based on the component of 10x(Category 1 Serious eye damage/eye irritation + Category 1 skin corrosion/irritation) are $\geq 10\%$ . It is corresponding to the Category 2A.
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Carcinogenicity

Based on the component of Category 2 Carcinogenicity are  $\geq 1\%$ . It is corresponding to the Category 2.

Specific target organ toxicity (Single exposure)

Based on the component of Category 1 Specific target organ toxicity (Respiratory system) are  $\geq 1\%$  to  $<10\%$ . It is corresponding to the Category 2 (Respiratory system).

Specific target organ toxicity (Repeated exposure)

Based on the component of Category 1 Specific target organ toxicity (Respiratory system) are  $\geq 1\%$  to  $<10\%$ . It is corresponding to the Category 2 (Respiratory system).

## SECTION 12- ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (Acute)

Based on the (Toxicity multiplying factor  $\times 100 \times$  Category 1 Hazardous to the aquatic environment (Acute))  $+10 \times$  Category 2 and Category 3 are present in the mixture as all ingredient at a concentration  $\geq 25\%$ . It is corresponding to the Category 3 (Hazardous to the aquatic environment (Acute)).

Hazardous to the aquatic environment (Long term)

Based on the (Toxicity multiplying factor  $\times 100 \times$  Category 1 Hazardous to the aquatic environment (Long term))  $+10 \times$  Category 2 and Category 3 are present in the mixture as all ingredient at a concentration  $\geq 25\%$ . It is corresponding to the Category 3 (Hazardous to the aquatic environment (Long term)).

## SECTION 13- DISPOSAL CONSIDERATIONS

Residual waste

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Entrust disposal to officially recognized expert traders or disposal dealers with the permission of the prefectural governor, or entrust to local public entities if they are dealing disposal.

Contaminated containers and packaging

Recycle used containers by cleaning or dispose appropriately in accordance with official regulation.

Dispose of empty container after eliminating contents completely.

## SECTION 14- TRANSPORT INFORMATION

International regulation	Marine transport	Not applicable
	Marine Pollutant	Not applicable
	Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code.	Not applicable
	Air Transport	Not applicable
Domestic regulation	Land transport	Follow Fire Service Act and Road law
	Marine transport	Not applicable
	Marine Pollutant	Not applicable
	Transport in bulk according to MARPOL 73/78,Annex II ,and the IBC code.	Not applicable
	Air Transport	Not applicable
Special safety measure		Follow the description in the SECTION 7- HANDLING AND STORAGE  Make sure no leakage of the container, loading to avoid fall/damage and ensure a prevention of collapse of cargo at the transportation.
Emergency Response Guide No.		None

## SECTION 15- REGULATORY INFORMATION

The Industrial Safety and Health Law	Dangerous goods and hazardous substances should be displayed the name, etc. (Act: article 57-1, Enforcement ordinance: article 18-1/2, attached table 9)
	Dangerous goods and hazardous substances should be notified of the names and the like (Act: article 57-2, Enforcement ordinance: article 18-2-1/2, attached table 9)
Fire Service Act	Specify combustibles,Flamable solids
PRTR and Promotion of Chemical Management Law (PRTR Law)	Not applicable



Poisonous and  
Deleterious Substances  
Control Act

Not applicable

## SECTION 16- OTHER INFORMATION

References and sources Database of Japan chemical database Ltd.

SDS of raw materials.

Disclaimer:

This safety data sheet (SDS) is based on the latest sources and data which are currently available. It may be updated based on new scientific findings.

The precautions herein are for normal handling.

As cautions described are for normal usage, and it is assumed any chemical product has unknown hazard, extreme caution is required for handling. It is the user's responsibility to determine safe conditions for use of this product. For special handling, please use it in the light of suitable safety measures for application and usage.

Please contact our sales department, Inquiry for this SDS of detailed Information on ingredients and regulatory Information.

Three lows of the SDS (Note.1);

Law concerning Reporting, etc. of Release to the Environment of Specific Chemical Substances and Promoting Improvements in their Management (PRTR act).

Industrial Safety and Health Act (Article 57-2).

Poisonous and Deleterious Substances Control Act.