

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name (Product name) Sealer 555 White (Tube)
Product number 770280
SDS Number rdjp199-2
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
PHYSICAL HAZARDS Flammable solids Category1
HEALTH HAZARDS Acute toxicity (inhalation: vapors) Category4
Skin corrosion/irritation Category2
Serious eye damage/eye irritation Category2A
Carcinogenicity Category2
Reproductive toxicity Category1B
Specific target organ toxicity (Single exposure)
Category 1 (Liver,Respiratory tract,Kidneys,Central nervous system)
Specific target organ toxicity (Repeated exposure)
Category 1 (Respiratory tract,Nervous system)
ENVIRONMENTAL HAZARDS Hazardous to the aquatic environment (Acute)
:Category2
Hazardous to the aquatic environment (Long term)
:Category3
Hazards not stated here are "Not applicable" or "Classification not possible".

GHS label
Symbols



Signal words Danger

Hazard statements

H228 Flammable solid.

H315 Causes skin irritation

H319 Causes serious eye irritation

H332 Harmful if inhaled

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

H370 Causes damage to organs

H372 Causes damage to organs through prolonged or repeated exposure

H401 Toxic 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)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.(P210)

Ground/bond container and receiving equipment.(P240)

Use explosion-proof electrical/ventilating/light equipment.(P241)

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

Wash hands thoroughly after handling. (P264)

Wash eyes thoroughly after handling. (P264)

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

Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment.(P273)

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

【Response】

IF ON SKIN: Wash with plenty of soap and water. (P302+P352)

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)

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 or concerned: Get medical advice/attention.(P308+P313)

Call a POISON CENTRE or doctor/physician if you feel unwell. (P312)

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

Specific measures is required. (P321)

If skin irritation occurs: Get medical advice/attention. (P332+P313)

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

Take off contaminated clothing and wash it before reuse. (P362+P364)

In case of fire: Use suitable extinguishing media for extinction. (P370+P378)

【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)	Ethylbenzene (Designated number by Laws: 70) (1%~10%)
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Xylene (Designated number by Laws: 136) (10%~20%)

Titanium oxide(IV) (Designated number by Laws: 191) (1%~10%)

Law concerning Reporting, etc. of Release to the Environment of Specific Chemical Substances and Promoting Improvements in their Management (PRTR act)	Class I Designated Chemical Substances (Article 2 paragraph (2) Enforcement OrdeArticle 1 Appended Table 1)	Ethylbenzene (Designated number by Laws: 53) (8.0%)
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Xylene (Designated number by Laws: 80) (12%)

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

Skin contact	Remove/Take off immediately all contaminated clothing or shoes.
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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	Immediately flush carefully with plenty of clean water for at least 15 minutes. Consult an ophthalmologist.
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Hold eyelids open and away from eyeballs with fingers to ensure that all surfaces are flushed thoroughly.

Remove contact lenses, if present and easy to do.

Ingestion	Rinse mouth well with clean water.
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Do not induce vomiting unless.

Never give anything by mouth to an unconscious person.

Get immediate medical advice/attention.

Protection for first-aides Wear safety equipments as indicated in section 8 (EXPOSURE CONTROL/PERSONAL PROTECTION) during handling.

SECTION 5- FIRE FIGHTING MEASURES

Suitable extinguishing media In case of fire, use water spray, foam, powder, carbon dioxide and dry sand.

Special fire fighting procedures Use designated extinguishing media.

Extinguish the fire from the windward side of the fire.

Remove surrounding combustible materials immediately.

Cool surrounding equipment with water spray.

Special protective equipment and precautions for fire-fighters Wear suitable Self-Contained Breathing Apparatus (SCBA), Chemical proof protective clothing.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal precautions (protective equipment and emergency measures) Provide ventilation adequately until finishing process.

Wear suitable protective equipment as indicated in section 8 during handling.

Exclude non-essential personnel.

Environmental precautions Prevent from entering into drains, ditches, basement or closed place.

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.

Promptly remove the sources of ignition.

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) . Use explosion-proof equipment and to implement an electrostatic measures to facilities. Prohibit the use of the high temperatur, 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)		Dust allowable concentration degree; 1mg/m ³ ; Dust(2nd kind) Total dust:4mg/m ³	TWA 10 mg/m ³ , STEL -
Xylene	50ppm	50ppm(217mg/m ³)	TWA 100 ppm, STEL 150 ppm
Ethylbenzene	20ppm	50ppm(217mg/m ³)	TWA 20 ppm, STEL -

Facility Protection	For the indoor workplaces, install the equipment or local exhaust ventilation to seal the divergent sources of steam. If steam or the fume and mist is generated, install a local exhaust system.
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		Install shower, hand-wash, cleansing facilities close to handling location, and clearly display the position.
Personal protection equipments	Respiratory protection	Use gas masks for organic vapor or supplied-air respirator depending on the situation.
	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		33°C(Seta closed style)
Specific gravity (Density)		ca1.19

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

Acute toxicity	Inhalation	Based on the acute toxicity estimate of mixtures of >2500ppm to ≤20000ppm. It was set as Category 4.
Skin corrosion/irritation		Based on the Category 2 skin irritation is present in the mixture as all ingredient at a concentration ≥10%. It was set as Category 2.

Serious eye damage/eye irritation	Based on the Category 2A Serious eye damage/eye irritation is present in the mixture as all ingredient at a concentration $\geq 10\%$. It was set as Category 2A.
Carcinogenicity	Based on the Category 2 Carcinogenicity is present in the mixture as all ingredient at a concentration estimate of mixtures of $\geq 1\%$. It was set as Category 2.
Reproductive toxicity	Based on the Category 1B Reproductive toxicant is present in the mixture as all ingredient at a concentration $\geq 0.3\%$. It was set as Category 1B.
Specific target organ toxicity (Single exposure)	Based on the Category 1 (Liver) specific target organ toxicant is present in the mixture as ingredient at a concentration $\geq 10\%$. It was set as Category 1 (Liver).
	Based on the Category 1 (Respiratory tract) specific target organ toxicant is present in the mixture as ingredient at a concentration $\geq 10\%$. It was set as Category 1 (Respiratory tract).
	Based on the Category 1 (Kidneys) specific target organ toxicant is present in the mixture as ingredient at a concentration $\geq 10\%$. It was set as Category 1 (Kidneys).
	Based on the Category 1 (Central nervous system) specific target organ toxicant is present in the mixture as ingredient at a concentration $\geq 10\%$. It was set as Category 1 (Central nervous system).
	Based on the Category 1 (Respiratory tract) specific target organ toxicant is present in the mixture as ingredient at a concentration $\geq 10\%$. It was set as Category 1 (Respiratory tract).
Specific target organ toxicity (Repeated exposure)	Based on the Category 1 (Nervous system) specific target organ toxicant is present in the mixture as ingredient at a concentration $\geq 10\%$. It was set as Category 1 (Nervous system).

SECTION 12- ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (Acute)

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

Follow IMO provisions

UN No.

1325

Proper Shipping Name

FLAMMABLE SOLID, ORGANIC, N.O.S.

Class

4.1

Packing Group

II

Marine Pollutant

Not applicable

Transport in bulk

Not applicable

according to

MARPOL

73/78,Annex

II ,and the IBC

code.

Air Transport

Follow ICAO/IATA provisions

UN No.

1325

Proper Shipping Name

FLAMMABLE SOLID, ORGANIC, N.O.S.

Class

4.1

Packing Group

II

Domestic regulation	Land transport	Follow Fire Service Act and Road law
	Marine transport	Follow Ship Safety Act
	UN No.	1325
	Proper Shipping Name	FLAMMABLE SOLID, ORGANIC, N.O.S.
	Class	4.1
	Packing Group	II
	Marine Pollutant	Not applicable
	Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code.	Not applicable
	Air transport	Follow Aviation Law
	UN No.	1325
Special safety measure	Proper Shipping Name	FLAMMABLE SOLID, ORGANIC, N.O.S.
	Class	4.1
	Packing Group	II
		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.	133	

SECTION 15- REGULATORY INFORMATION

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Priority Assessment Chemical Substances (Laws and regulations Article 2 Paragraph 5)

The Industrial Safety and Health Law

Class II Specified chemical substances, Specified organic solvents (Specified Chemical Ordinance Article 2 paragraph (1) No. 2, paragraph (3) No. 2, paragraph (3) No. 3).

Class II Specified organic solvents (Enforcement Order Appended Table 6-2/Organic Solvent Ordinance Article 1 paragraph (1) No. 4).

The working environment assessment standard (Article 65-2 (1)).

Dangerous goods and hazardous substances should be displayed the name, etc. (Act: article 57-1, Enforcement ordinance: article 18-1/2, attached table 9)

Publication substances of Prevent Health Impediment Guidelines (Article 28-3/Guidelines of Ministry of Health, Labour and Welfare).

Dangerous goods and hazardous substances should be notified of the names and the like (Act: article 57-2, Enforcement ordinance: article 18-1/2, attached table 9)

Specified chemical substances, Specified management substances (Specified Chemical Ordinance Article 2 paragraph (1) No. 2, paragraph (3) No. 2, paragraph (3) No. 3).

Water Pollution Control Act	Designated Substances (Article 2-4 Enforcement Order 3-3).
Fire Service Act	Class II flammable solids.
Offensive Odor Control Act	Specified odor substance (Enforcement Order Act 1).
Air Pollution Control Act	May be applicable as Hazardous Air Pollutants (The ninth central environmental council report).
	Volatile Organic Compound (Act 4-2) (Notification from the Ministry of the Environment to the prefectural).
Ship Safety Act	Flammable Substances/Flammable Substance(Dangerous Goods Regulations third Article dangerous goods notice Attached Table 1)
Aviation Law	Flammable Substances/Flammable Substance(Enforcement Regulations Article 194 of dangerous goods notice Attached Table 1)
Act on Port Regulations	Other Dangerous Flammable Substances/Flammable Substance(law Article 21 2, law Article 12, Attached Table)
Law concerning Reporting, etc. of Release to the Environment of Specific Chemical Substances and Promoting Improvements in their Management (PRTR act)	Class I Designated Chemical Substances (Article 2-2, Enforcement Regulation Article 1 Appended Table 1).

Labor Standards Act Illness chemical substances (Article 75-2 of the Act, Enforcement Regulation Article 35 Appended Table 1-2 item 4-1).

Poisonous and Not applicable
Deleterious Substances
Control Act

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.