

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name (Product name) Twinkle Super L3000
Product number 100930
SDS Number rdjp41-3
Manufacturer/Supplier SOLAR CO.,Ltd.
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SECTION 2- HAZARDS IDENTIFICATION

GHS classification
PHYSICAL HAZARDS Flammable liquid Not classified
HEALTH HAZARDS Skin corrosion/irritation Category2
Skin sensitization Category 1
Specific target organ toxicity (repeated exposure)
Category 1 (Lung)
Specific target organ toxicity (repeated exposure)
Category 2 (Respiratory system/Nervous system)
ENVIRONMENTAL HAZARDS Hazardous to the aquatic environment (Acute) Not classified
Hazardous to the aquatic environment (Long term)
Not classified
Hazards not stated here are "Not applicable" or "Classification not possible".

GHS label
Symbols



Signal words Danger
Hazard statements H315 Causes skin irritation
H317 May cause an allergic skin reaction
H372 Causes damage to organs through prolonged or repeated exposure
H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statements

- 【Prevention】** Do not breathe mist/vapours/spray.(P260)
- Wash hands thoroughly after handling. (P264)
- Do not eat, drink or smoke when using this product. (P270)
- Contaminated work clothing should not be allowed out of the workplace.(P272)
- Wear protective gloves.(P280)
- 【Response】** IF ON SKIN: Wash with plenty of soap and water.(P302+P352)
- 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 skin irritation or rash occurs: Get medical advice/attention.(P333+P313)
- Take off contaminated clothing and wash it before reuse. (P362+P364)
- 【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)

Diethanolamine (Designated number by Laws: 219) (Less than 1%)

Mineral spirits (including mineral thinner, petroleum spirit, white spirit and mineral turpentine.) (Designated number by Laws: 551) (1%~10%)

Mineral oil (Designated number by Laws: 168) (Less than 5%)

Aluminum oxide (Designated number by Laws: 189) (10%~20%)

Titanium oxide(IV) (Designated number by Laws: 191) (Less than 1%)

SECTION 4- FIRST AID MEASURES

Inhalation	<p>In case of feeling unwell by inhalation of vapor/gas, move into fresh air and keep at rest, and seek medical assistance.</p> <p>If breathing is difficult or not breathing, Immediately give artificial respiration. Get immediate medical advice/attention.</p>
Skin contact	<p>Remove/Take off immediately all contaminated clothing or shoes.</p> <p>Gently wash with plenty of soap and water.</p> <p>If abnormal changes are observed in appearance, or irritant or pain persists, or if you feel unwell, seek medical assistance.</p>
Eyes contact	<p>Do not rub or close eyes tightly.</p> <p>Immediately flush carefully with plenty of clean water for at least 15 minutes. 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 immediate medical advice/attention.</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 In case of fire, use water spray, foam, powder, carbon dioxide and dry sand.

Use a fire extinguishing agent suitable for the surrounding fire.

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 Absorbed by sand or cloth, then 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.

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) .

Precautions for safe handling Close container tightly after each use.

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

Storage	Appropriate storage conditions	<p>Wash body, face, hands, eyes thoroughly after handling.</p> <p>Keep container tightly closed.</p> <p>Store in a dark, cool and well ventilated area.</p> <p>Don't freeze.</p>
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SECTION 8- EXPOSURE CONTROL/PERSONAL PROTECTION

Component	Management Concentration	Allowable concentration (Society for Occupational Health)	Allowable concentration (ACGIH)
Titanium oxide(IV)		0.3mg/m ³ ; Dust allowable concentration degree; 1mg/m ³ ; Dust(2nd kind) Total dust:4mg/m ³	TWA 10 mg/m ³ , STEL -
Aluminum oxide		Dust allowable concentration Degree ; Dust(1st kind) Respirable dust: 0.5mg/m ³ , Total dust:2mg/m ³	unset
Diethanolamine			TWA 1 mg/m ³ (IFV), STEL - (Skin)
Mineral spirits			TWA 100 ppm, STEL -

Facility Protection		<p>If dust is generated in the polishing work, etc., place local ventilation system.</p> <p>Install shower, hand-wash, cleansing facilities close to handling location, and clearly display the position.</p>
Personal protection equipments	Respiratory protection	Use dust masks.
	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	Viscous Liquid
	Color	White
pH		ca 8.8
Flush point		None (Cleveland Open Cup)
Specific gravity (Density)		ca 1.1

SECTION 10- STABILITY AND REACTIVITY

Stability	Stable at normal conditions of handling.
Possibility of hazardous reaction	No information available.
Condition to avoid	No information available.
Hazardous decomposition products	No information available.

SECTION 11- TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	Based on the component of 10 X(Category 1 ,1A,1B,1C Skin corrosion/irritation)+Category 2 are $\geq 10\%$. It is corresponding to the Category 2.
Skin sensitization	Based on the component of Category 1 Skin sensitization are $\geq 1\%$. It is corresponding to the Category 1.
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). Based on the component of Category 1 Specific target organ toxicity (Nervous system) are $\geq 1\%$ to $<10\%$. It is corresponding to the Category 2 (Nervous system). Based on the component of Category 1 Specific target organ toxicity (Lung) are $\geq 10\%$. It is corresponding to the Category 1 (Lung).

SECTION 12- ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (Acute)

Based on the LL50(96h) in the mixture >100mg/L. It is not corresponding to the Hazardous to the aquatic environment (Acute).

Hazardous to the aquatic environment (Long term)

Based on the LL50(96h) in the mixture >100mg/L. It is not corresponding to the 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

Chemical Substances Control Law	Priority Assessment Chemical Substances (Act; Article 2-5)
The Industrial Safety and Health Law	Third kind organic solvent, etc. (Enforcement ordinance; attached table 9, Ordinance on the Prevention of Organic Solvent Poisoning; article 1-1-5) 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 18-1/2, attached table 9)
Clean Water Act	Specific substance (Article 2-4, Enforcement Order Article 3-3)
Fire Service Act	Non-dangerous goods
Water Supply Act	Hazardous substance (Act: article 4-2), Water quality standard (Ministerial ordinance 101, 2003)
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 laws 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.