

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name (Product name) Twinkle Super L1500

Product number 100910
SDS Number rdjp39-1
Manufacturer/Supplier SOLAR CO.,Ltd.
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SECTION 2- HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS Flammable liquid : Not classified

HEALTH HAZARDS Carcinogenicity : Category 2

Specific target organ toxicity (Single exposure)
Category 3 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)
Category 1 (Lung)

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

GHS label
Symbols



Signal words Danger

Hazard statements H335 May cause respiratory irritation
H351 Suspected of causing cancer
H372 Causes damage to organs through prolonged
or repeated exposure

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

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

Wear protective gloves.(P280)

【Response】

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

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)

【Storage】

Store in well-ventilated place. Keep container tightly closed. (P403+P233)

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)

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

Mineral oil (Designated number by Laws: 168) (10%~20%)

Aluminum oxide (Designated number by Laws: 189) (30%~40%)

Kerosene (Designated number by Laws: 380) (1%~10%)

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 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 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.

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

Storage

Appropriate storage conditions

Keep container tightly closed.

Store in a dark, cool and well ventilated area.

Don't freeze.

SECTION 8- EXPOSURE CONTROL/PERSONAL PROTECTION

Component	Management Concentration	Allowable concentration (Society for Occupational Health)	Allowable concentration (ACGIH)
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)
Kerosene			TWA 200 mg/m ³ (P), STEL - (as total hydrocarbon vapor) (Skin)

Facility Protection

If dust is generated in the polishing work, etc., place local ventilation system.

Install shower, hand-wash, cleansing facilities close to handling location, and clearly display the position.

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

ca9.0

Flush point

None (Cleveland Open Cup)

Specific gravity (Density)

ca1.25

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

Carcinogenicity

Based on the Category 2 Carcinogenicity is present in the mixture as all ingredient at a concentration estimate of mixtures of $\geq 1.0\%$. It was set as Category 2.

Specific target organ toxicity (Single exposure)

Based on the Category 3 (Respiratory tract irritation) specific target organ toxicity is present in the mixture as ingredient at a concentration $\geq 20\%$. It was set as Category 3 (Respiratory tract irritation).

Specific target organ toxicity (Repeated exposure)

Based on the Category 1 (Lung) specific target organ toxicant is present in the mixture as ingredient at a concentration $\geq 10\%$. It was set as Category 1 (Lung).

SECTION 12- ECOLOGICAL INFORMATION

No data

SECTION 13- DISPOSAL CONSIDERATIONS

Residual waste

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

Contaminated containers and packaging

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.

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)

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 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.