

date of issue : 10/07/2013

## Safety Data Sheets

### 1. Product and Company Identification

Product name :Twinkle Super L-1200

Name of supplier :SOLAR CO., LTD.

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

Division :R &amp; D DEPT.

Phone :+81-790-49-2366

FAX :+81-790-49-1588

Product code(SDS NO) :EN100900-5

### 2. Hazards identification

GHS classification and label elements of the product

GHS classification

HEALTH HAZARDS

Carcinogenicity : Category 2

Specific target organ toxicity - single exposure; Respiratory tract irritation Category 3

Specific target organ toxicity-repeated exposure : Category 1



Signal word : Danger

HAZARD STATEMENT

Suspected of causing cancer

May cause respiratory irritation

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.

Use only outdoors or in a well-ventilated area.

Use personal protective equipment as required.

Response

Get medical advice/attention if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Storage

Store locked up.

Store in well-ventilated place. Keep container tightly closed.

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
Aluminium oxide	35 - 40	1344-28-1	-
Water	25 - 30	7732-18-5	-

Kerosene	5 - 10	64742-81-0, 64741-77-1, 8008-20-6	-
Mineral oil	15 - 20	Non Public	-
Emulsifier	1 - 5	Non Public	-
Additive	1 - 5	Non Public	-

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#### 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.

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#### 5. Fire-fighting measures

##### Suitable extinguishing media

In case of fire, use water mist, foam, dry powder or CO<sub>2</sub>.

##### 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.

Do not freeze.

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### 8. Exposure Controls/Personal Protection

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

#### Adopted value

(Kerosene)

ACGIH(2001) TWA: 200mg/m<sup>3</sup>(P) (Skin)(Skin & URT irr; CNS impair)

(Aluminium oxide)

ACGIH(2007) TWA: 1 mg/m<sup>3</sup>(R) (Pneumoconiosis; LRT irr; neurotoxicity)

#### 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 :viscous liquid

Color :white

pH :ca 9.3

Flash point :>100 (Seta closed style)

Specific gravity :ca 1.30

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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

#### Carcinogenic effects

(Aluminium oxide)

ACGIH-A4(2007) : (Not Classifiable as a Human Carcinogen)

(Kerosene)

ACGIH-A3(2001) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

Specific target organ toxicity (single exposure cat.3 respiratory irritation)

(Aluminium oxide) Respiratory tract irritation ( ICSC, 2000 )

Specific target organ toxicity (repeated exposure cat.1)

(Aluminium oxide) lung ( EHC, 1999 )

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## 12. Ecological Information

### Ecotoxicity

#### Water solubility

(Aluminium oxide)  
none (ICSC, 2000)  
(Kerosene)  
none (ICSC, 1998)

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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.

### Special precautions in connection with transport or conveyance

Follow instruction in Handling & Storage.

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## 15. Regulatory Information

### Industrial Safety and Health law, Japan

Chemical name et al should be informed :Mineral oil;Aluminium oxide;Kerosene

### Fire protection law, Japan

Listed flammables : flammable liquids ; (limited qty) 2m3

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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

### 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