

## Material Safety Data Sheet

### 1. Product and Company Identification

Product name :KIRARI (Solution A)

Name of supplier :SOLAR CO., LTD.

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

Division :R & D DEPT.

Phone :+81-790-49-2366

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Product code(MSDS NO) :EN300521-2

### 2. Hazards Identification

GHS classification and label elements of the product

GHS classification

PHYSICAL HAZARDS

Flammable liquids : Category 3



Signal word :Warning

HAZARD STATEMENT

Flammable liquid and Vapor

PRECAUTIONARY STATEMENT

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment and non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use appropriate media other than water for extinction.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents/container in accordance with local/national regulation.

Class name of hazardous chemicals for MSDS in Japan

Flammable liquids

### 3. Composition/Information on Ingredients

Substance/Preparation :Preparation

Ingredient name	content(%)	CAS No.	PRTR law No, Japan
Mineral oil	75 - 80		
Polysiloxane	20 - 25		
Amorphous silica	0.1 - 1	7631-86-9	
Additive	0.1 - 1		

#### 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.

##### Skin contact

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 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

(Exposure Control for handling personnel)

Use personal protective equipment as required.

(Protective measures against fire & explosion)

Take precautionary measures against static discharge.

##### Safety Measures/Incompatibility

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

Handle in good ventilation.

##### Conditions for safe storage, including any incompatibilities

## Recommendation for storage

- Keep container tightly closed.
- Protect from sunlight. Store in a well-ventilated place.

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**8. Exposure Control/Personal Protection**

## Appropriate engineering controls

- Do not use in areas without adequate ventilation.
- Exhaust/ventilator should be available.

## Individual protection measures, such as personal 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 :liquid

Color :white

Flash point :37 (Closed style) (Ref.value/Polysiloxane)

Specific gravity :No data

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**10. Stability and Reactivity**

## Chemical stability

- Stable under normal storage/handling conditions.

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**11. Toxicological Information**

Symptoms related to the physical, chemical and toxicological characteristics

## Acute toxicity

## Oral toxicity component(s) data

(Amorphous silica)rat LD50 3160 mg/kg

## Carcinogenic effects

(Amorphous silica)IARC-Gr.3 ; Not Classifiable as a Human Carcinogen.

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**12. Ecological Information**

Not known

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**13. Disposal Considerations**

Description of waste residues and information on their safe handling and methods of disposal

- 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

UN No :1993

UN CLASS :3

PG :III

Proper shipping name :FLAMMABLE LIQUID, N.O.S.

ERG GUIDE NO :128

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 :Amorphous silica;Mineral oil

Fire protection law, Japan

Petroleums Gr.2, ( Class III )

Ship cargo control law, Japan

Flammable liquids

Air cargo control law, Japan

Flammable liquids

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16. Other Information/References

Reference Book

Recommendations on the TRANSPORT OF DANGEROUS GOODS 15th edit. UN

2008 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2008 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/monoeval/grlist.html>

JIS Z 7250 2005

Supplier's SDS

ezCric(Retrieval System/ Japan Chemical Database Ltd.)

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