

## SAFETY DATA SHEET

### SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name (Product name) KIRARI (Solution A)

Product number 300521

SDS Number rdjp70-1

Manufacturer/Supplier SOLAR CO.,Ltd.

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### SECTION 2- HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS Flammable liquid Category 3

HEALTH HAZARDS Carcinogenicity Category1A

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

GHS label  
Symbols



Signal words Danger

Hazard statements H226 Flammable liquid and Vapor  
H350 May cause cancer

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/sparks/open flames/hot surfaces. - No smoking.(P210)

Keep container tightly closed. (P233)

Ground/bond container and receiving equipment.(P240)

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

Use only non-sparking tools. (P242)

Take precautionary measures against static discharge. (P243)

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

**【Response】**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. (P303+P361+P353)

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

In case of fire: Use appropriate media other than water for extinction.(P370+P378)

**【Storage】**

Store in well-ventilated place. Keep cool . (P403+P235)

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)	Mineral oil (Designated number by Laws: 168) (70%~80%)
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#### 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, give artificial respiration immediately. Get medical advice/attention immediately.</p>
Skin contact	<p>Remove/Take off all contaminated clothing or shoes immediately.</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>Flush carefully with plenty of clean water for at least 15 minutes immediately. 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 foam, powder, carbon dioxide and dry sand.

Unsuitable extinguishing media Rod-like water injection (danger to expand the 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.

Remove the sources of ignition promptly.

#### 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 temperature, 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, cool and well ventilated area.

## SECTION 8- EXPOSURE CONTROL/PERSONAL PROTECTION

Facility Protection

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

Personal protection equipments

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

Liquid

Color

Clouded

Flush point

37°C(Closed-style/ref.)

Specific gravity (Density)

ca0.79

## 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 component of Category 1A Carcinogenicity are $\geq 0.1\%$ . It is corresponding to the Category 1A.
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#### 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.
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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.
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#### SECTION 14- TRANSPORT INFORMATION

International regulation	Marine transport	Follow IMO provisions
	UN No.	1993
	Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
	Class	3
	Packing Group	III
	Marine Pollutant	Not applicable

	Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code.	Not applicable
	Air Transport	Follow ICAO/IATA provisions
	UN No.	1993
	Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
	Class	3
	Packing Group	III
Domestic regulation	Land transport	Follow Fire Service Act and Road law
	Marine transport	Follow Ship Safety Act
	UN No.	1993
	Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
	Class	3
	Packing Group	III
	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.	1993
	Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
	Class	3
	Packing Group	III
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.		128

## 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/Flammable substances (Enforcement Order Appended Table 1-4).

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)

Fire Service Act Class 4 second petroleum (water insoluble)

Ship Safety Act Flammable liquid (Dangerous Goods Regulations third Article dangerous goods notice Attached Table 1)

Aviation Law Flammable liquids (Enforcement Regulations Article 194 of dangerous goods notice Attached Table 1)

Act on Port Regulations Hazardous materials, flammable liquid compounds (law Article 21 2, law Article 12, Dangerous goods notice Attached Table)

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.