

## SAFETY DATA SHEET

### SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name (Product name) HI-GLOSS #310F

Product number 100850

SDS Number rdjp32-2

Manufacturer/Supplier SOLAR CO.,Ltd.

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### SECTION 2- HAZARDS IDENTIFICATION

GHS classification  
HEALTH HAZARDS Serious eye damage/eye irritation Category2A

Carcinogenicity Category2

Specific target organ toxicity (Single exposure)  
Category 2 (Liver)

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

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

Specific target organ toxicity (repeated exposure)  
Category 2 (Respiratory tract)

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

GHS label  
Symbols



Signal words Danger

Hazard statements H319 Causes serious eye irritation

H335 May cause respiratory irritation

H351 Suspected of causing cancer

H371 May cause damage to organs

H372 Causes damage to organs through prolonged or repeated exposure

H373 May cause 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)  
Wash eyes 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/eye protection/face protection. (P280)
- 【Response】** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.(P305+P351+P338)  
If exposed: Call a POISON CENTER or doctor/physician.(P308+P313)  
Call a POISON CENTRE or doctor/physician if you feel unwell. (P312)  
Get medical advice/attention if you feel unwell.(P314)  
If eye irritation persists get medical advice/attention.(P337+P313)
- 【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 5%)

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

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

### SECTION 4- FIRST AID MEASURES

Inhalation

In case of feeling unwell by inhalation of vapor/gas, move into fresh air and keep at rest, and seek medical assistance.

If breathing is difficult or not breathing, Immediately give artificial respiration. Get immediate medical advice/attention.

Skin contact

Remove/Take off immediately all contaminated clothing or shoes.

Gently wash with plenty of soap and water.

If abnormal changes are observed in appearance, or irritant or pain persists, or if you feel unwell, seek medical assistance.

Eyes contact

Do not rub or close eyes tightly. Immediately flush carefully with plenty of clean water for at least 15 minutes. Consult an ophthalmologist.

Hold eyelids open and away from eyeballs with fingers to ensure that all surfaces are flushed thoroughly.

	Remove contact lenses, if present and easy to do.
Ingestion	Rinse mouth well with clean water.
	Do not induce vomiting unless.
	Never give anything by mouth to an unconscious person.
	Get immediate medical advice/attention.
Protection for first-aides	Wear safety equipments as indicated in section 8 (EXPOSURE CONTROL/PERSONAL PROTECTION) during handling.

#### SECTION 5- FIRE FIGHTING MEASURES

Suitable extinguishing media	In case of fire, use water spray, foam, powder, carbon dioxide and dry sand.
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.

Prevent from entering into drains, ditches, basement or closed place.

Properly treat deposits, waste and etc., on the basis of the applicable laws and regulations.

Promptly remove the sources of ignition.

### 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) .

Prohibit the use of the high temperatur, 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.

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 <sup>3</sup> , Total dust:2mg/m <sup>3</sup>	unset
Titanium oxide(IV)		Dust allowable concentration degree; 1mg/m <sup>3</sup> ; Dust(2nd kind) Total dust:4mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup> , STEL -

Diethanolamine			TWA 1 mg/m <sup>3</sup> (IFV), STEL - (Skin)
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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	Liquid
	Color	White
pH		ca 9.9
Flush point		No data
Specific gravity		ca 1.35

#### 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

Serious eye damage/eye irritation	Based on the 10 X(Category 1 Serious eye damage/eye irritation and Category1,1A,1B and 1C Skin corrosion/irritation) is present in the mixture as all ingredient at a concentration $\geq$ 10%. It was set as Category 2A.
Carcinogenicity	Based on the Category 2 Carcinogenicity is present in the mixture as all ingredient at a concentration estimate of mixtures of $\geq$ 1%. 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).

Based on the Category 1 (Liver) specific target organ toxicity is present in the mixture as ingredient at a concentration  $\geq 1\%$  to  $<10\%$ . It was set as Category 2 (Liver).

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).

Based on the Category 1 (Respiratory tract) specific target organ toxicant is present in the mixture as ingredient at a concentration  $\geq 1\%$  to  $<10\%$ . It was set as Category 2 (Respiratory tract).

## 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.

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
	Noxious liquid substances under MARPOL 73/78 Appendix II and 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 (Laws and regulations Article 2 Paragraph 5)
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 18-1/2, attached table 9)
Clean Water Act	Specific substance (Article 2-4, Enforcement Order Article 3-3)
Fire Service Act	Specify combustibles, flammable liquid
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.