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SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name (Product name) Mirror Finish Agent 375
Product number 300200
SDS Number rdjp58-2
Manufacturer/Supplier SOLAR CO.,Ltd.
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SECTION 2- HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS Flammable liquid Category 4

HEALTH HAZARDS Skin corrosion/irritation Category2

Carcinogenicity Category2

Reproductive toxicity Category1B

Specific target organ toxicity (repeated exposure)
Category 2 (Lung)

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

GHS label

Symbols



Signal words

Hazard statements

Danger

H227 Combustible liquid

H315 Causes skin irritation

H351 Suspected of causing cancer

H360 May damage fertility or the unborn child

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) Keep away from heat/sparks/open flames/hot surfaces. - No smoking.(P210) Do not breathe mist/vapors/spray. (P260) Wash hands thoroughly after handling. (P264) Wear protective gloves/eye protection/face protection. (P280)
【Response】	IF ON SKIN: Wash with plenty of soap and water. (P302+P352) If exposed: Call a POISON CENTER or doctor/physician.(P308+P313) Get medical advice/attention if you feel unwell. (P314) Specific treatment. (P321) If skin irritation occurs: Get medical advice/attention. (P332+P313) Take off contaminated clothing and wash it before reuse. (P362+P364) In case of fire: Use suitable extinguishing media for extinction. (P370+P378)
【Storage】	Store in a 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)				
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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)

Silica (Designated number by Laws: 312)(Less than 5%)

Mineral spirits (including mineral thinner, petroleum spirit, white spirit and mineral turpentine.)(Designated number by Laws: 551)(10%~20%)

Aluminum oxide(Designated number by Laws: 189)(Less than 5%)

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

Petroleum naphtha(Designated number by Laws: 330)(Less than 5%)

Kerosene(Designated number by Laws: 380)(10%~20%)

Dangerous goods and hazardous substances should be notified name. (Act: Article 57-2, Enforcement Ordinance: Article 18-2 Attached Table 9)

Ethylbenzene(Designated number by Laws: 70)(Less than 1%)

Xylene(Designated number by Laws: 136)(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, give artificial respiration immediately. Get medical advice/attention immediately.
Skin contact	Remove/Take off all contaminated clothing or shoes immediately. 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. Flush carefully with plenty of clean water for at least 15 minutes immediately. 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 medical advice/attention immediately.
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.

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) .

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.

Don't freeze.

SECTION 8- EXPOSURE CONTROL/PERSONAL PROTECTION

Component	Management Concentration	Allowable concentration (Society for Occupational Health)	Allowable concentration (ACGIH)
Titanium oxide(IV)		0.3mg/m ³ ; Dust allowable concentration degree; 1mg/m ³ ; Dust(2nd kind) Total dust:4mg/m ³	TWA 10 mg/m ³ , STEL -
Aluminum oxide		Dust allowable concentrationDegree ; Dust(1st kind) Respirable dust: 0.5mg/m ³ , Total dust:2mg/m ³	unset
Mineral spirits			TWA 100 ppm, STEL -
Kerosene			TWA 200 mg/m ³ (P), STEL - (as total hydrocarbon vapor) (Skin)
Xylene	50ppm	50ppm(217mg/m ³)	TWA 100 ppm, STEL 150 ppm
Ethylbenzene	20ppm	50ppm(217mg/m ³)	TWA 20 ppm, STEL -

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

White

pH

ca9.3

Flash point

64°C (SETA closed-cup/analogy value)

Specific gravity (Density)

ca1.00

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

Skin corrosion/irritation

Based on the Category 2 skin irritation is present in the mixture as all ingredient at a concentration $\geq 10\%$. It was set as Category 2.

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.

Reproductive toxicity

Based on the Category 1B Reproductive toxicant is present in the mixture as all ingredient at a concentration $\geq 0.3\%$. It was set as Category 1B.

Specific target organ toxicity (Repeated exposure)

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

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

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

Chemical Substances Control Law	Priority Assessment Chemical Substances (Laws and regulations Article 2 Paragraph 5)
The Industrial Safety and Health Law	<p>Third kind organic solvent, etc. (Enforcement ordinance; attached table 6-2, Ordinance on the Prevention of Organic Solvent Poisoning; article 1-1-5)</p> <p>Dangerous goods and hazardous substances should be displayed the name, etc. (Act: article 57-1, Enforcement ordinance: article 18-1/2, attached table 9)</p> <p>Dangerous/Flammable substances (Enforcement Order Appended Table 1-4).</p> <p>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)</p>
Water Pollution Control Act	Designated Substances (Article 2-4 Enforcement Order 3-3).
Fire Service Act	Specify combustibles, Flammable liquids
Offensive Odor Control Act	Specified odor substance (Enforcement Order Act 1).
Air Pollution Control Act	<p>May be applicable as Hazardous Air Pollutants (The ninth central environmental council report).</p> <p>Volatile Organic Compound (Act 2-4)(Object substance in Ordinance on Prevention of Organic Solvent Poisoning)</p> <p>Volatile Organic Compound (Act 2-4) (Notification from the Ministry of the Environment to the prefectural).</p>
Water Supply Act	Hazardous substance (Act: article 4-2), Water quality standard (Ministerial ordinance 101, 2003)
Labor Standards Act	Illness chemical substances (Article 75-2 of the Act, Enforcement Regulation Article 35 Appended Table 1-2 item 4-1).

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.