

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical name MICRON 121
(Product name)
Product number 100870
SDS Number rdjp35-1
Manufacturer/Supplier SOLAR CO.,Ltd.
Address 1-7,Nunobiki-cho-2-chome,Chuo-ku Kobe 651-0097,
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SECTION 2- HAZARDS IDENTIFICATION

GHS classification
HEALTH HAZARDS Skin sensitization:Category1
Specific target organ toxicity(repeated exposure)
:Category2(Respiratory system/Nervous system)
ENVIRONMENTAL HAZARDS Hazardous to the aquatic environment (Acute)
:Category3
Hazardous to the aquatic environment (Long term)
:Category3
Hazards not stated here are "Not applicable" or
"Classification not possible".

GHS label
Symbols



Signal words Warning
Hazard statements H317:May cause an allergic skin reaction
H373:May cause damage to organs through prolonged
or repeated exposure
H402:Harmful to aquatic life
H412:Harmful to aquatic life with long-lasting effects
Precautionary statements
【Prevention】 Do not breathe mist/vapours/spray.(P260)
Contaminated work clothing should not be allowed out
of the workplace.(P272)
Avoid release to the environment.(P273)
Wear protective gloves.(P280)
【Response】 IF ON SKIN: Wash with plenty of water.(P302+P352)
Get medical advice/attention if you feel unwell.(P314)
Specific treatment .(P321)
If skin irritation or a rash occurs: Get medical
advice/attention.(P333+P313)
Take off contaminated clothing and wash it before
reuse.(P362+P364)

【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					

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 (Regulations specified: 219) (Less than 1%)

Nonane (Regulations specified: 432) (Less than 5%)

Mineral oil (Regulations specified: 168) (Less than 5%)

Titanium oxide(IV) (Regulations specified: 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

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.

Special protective equipment and precautions for fire-fighters Extinguish the fire from the windward side of the fire. Remove surrounding combustible materials immediately. Cool surrounding equipment with water spray. 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.

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)
Titanium oxide(IV)		Dust allowable concentration degree; 1mg/m ³ ; Dust(2nd kind) Total dust:4mg/m ³	unset
Diethanolamine			TWA 1 mg/m ³ (IFV), STEL - (Skin)
n-Nonane		200ppm(105 0mg/m ³)	TWA 200 ppm, STEL -

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(viscous liquid)

pH	Color	Blue-white ca9.2
Flush point		No data
Specific gravity		ca0.9

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 sensitization		Based on the Category 1 Skin sensitization is present in the mixture as all ingredient at a concentration estimated of mixtures of $\geq 1\%$. It was set as Category 1.
Specific target organ toxicity-repeated exposure		Based on the Category 2 Specific target organ toxicity (Respiratory system/Nervous system) is present in the mixture as all ingredient at a concentration $\geq 1\%$ to $>10\%$. It was set as Category 2 (Respiratory system/Nervous system).

SECTION 12- ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (Acute)		Based on the Category 3 Specific target organ toxicity (Hazardous to the aquatic environment (Acute)) is present in the mixture as all ingredient at a concentration $>25\%$. It was set as Category 3 (Hazardous to the aquatic environment (Acute)).
Hazardous to the aquatic environment (Long term)		Based on the Category 3 Specific target organ toxicity (Hazardous to the aquatic environment (Long term)) is present in the mixture as all ingredient at a concentration $>25\%$. It was set as Category 3 (Hazardous to the aquatic environment (Long term)).

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
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	Marine Pollutant Transport in bulk according to MARPOL 73/78, Annex II, and the IBC code.	Not applicable Not applicable
Domestic regulation	Air Transport Land transport Marine transport Marine pollutant Noxious liquid substances under MARPOL 73/78 Appendix II and IBC code	Not applicable Follow Fire Service Act and Road law Not applicable Not applicable Not applicable
Special safety measure	Air transport	Not applicable 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 (Act; Article 2-5)
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)
Fire Service Act	Specify combustibles, flammable solid
Air Pollution Control Act	Volatile organic compound (Law Article 2 Paragraph 4)
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.