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Safety Data Sheet

1. Product and Company Identification

Product name :MICRON #121

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.

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Product code(SDS NO) :EN100870-4

2. Hazards Identification

GHS classification and label elements of the product

GHS classification

HEALTH HAZARDS

Germ cell mutagenicity : Category 2

Specific target organ toxicity-repeated exposure : Category 2



Signal word : Warning

HAZARD STATEMENT

Suspected of causing genetic defects

May causes damage to organs following repeated exposure.

PRECAUTIONARY STATEMENT

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.

Use personal protective equipment as required.

Response

Get medical advice/attention if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Storage

Store locked up.

Disposal

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

3. Composition/Information on Ingredients

Substance/Preparation :Preparation

Ingredient name	content(%)	CAS No.	PRTR law No, Japan
Abrasive	5 - 10	Non Public	-
Solvent	30 - 35	Non Public	-
n-Nonane	<1.6	111-84-2	-
Mineral oil	1 - 5	Non Public	-
Water	45 - 50	7732-18-5	-
Emulsifier	1 - 5	Non Public	-
Additive	5 - 10	Non Public	-

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.

IF ON SKIN

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.

5. Fire-Fighting Measures

Suitable extinguishing media

In case of fire, use water mist, foam, dry powder or CO2.

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.

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 neutralization, 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.

7. Handling and Storage

Precautions for safe handling

Preventive measures

Use personal protective equipment as required.

Take precautionary measures against static discharge.

Safety Measures/Incompatibility

Handle in good ventilation.

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

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep container tightly closed.

Protect from sunlight. Store in a well-ventilated place.

Do not freeze.

8. Exposure Control/Personal Protection

Control parameters e.g. occupational exposure limit values or biological limit values

Adopted value

(n-Nonane)

JSOH(1989) 200ppm; 1050mg/m³

(n-Nonane)

ACGIH(1992) TWA: 200ppm (CNS impair)

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Exhaust/ventilator should be available.

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

9. Physical and Chemical Properties

Physical properties

Appearance :viscous liquid

Color :Bluish white

pH :ca 9.2

Flash point :>100 (Seta closed style)(on the analogy of similar article)

Specific gravity :ca 0.94

10. Stability and Reactivity

Stability

Stable under normal storage/handling conditions.

11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics

Acute toxicity

Inhalation toxicity component(s) data

(n-Nonane)

vapor : rat LC50 =16.75mg/L/4hr (ACGIH (7th 2001) et al)

(Mineral oil)

mist : rat LC50=2.18 mg/L (IUCLID (2000))

Mutagenic effects

(Mineral oil) IUCLID (2000) et al

Delayed and immediate effects and also chronic effects from short- and long-term exposure

Specific target organ toxicity (repeated exposure cat.2)

(Mineral oil) lung;skin

12. Ecological Information

Ecotoxicity

Water solubility

(n-Nonane)

0.7 g/100 ml (20 C) (ICSC, 1995)

Bioaccumulative potential

(n-Nonane)

log Pow=5.65 (ICSC, 1995)

(Mineral oil)
log Pow=3.9 through 6 (cal.) (ICSC, 2001)

13. Disposal Considerations

Waste residues

Avoid release to the environment (- if this is not the intended use).

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

14. Transport Information

UN No, UN CLASS

Not applicable to UN NO.

Sea pollutants control law

Noxious Liquid ; Cat. X :n-Nonane

Special precautions in connection with transport or conveyance

Follow instruction in Handling & Storage.

15. Regulatory Information

Industrial Safety and Health law, Japan

Chemical name et al should be informed :Mineral oil;n-Nonane

Fire protection law, Japan

Listed flammables : flammable liquids ; (limited qty) 2m3

16. Other Information/References

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 17th edit. UN

Classification, labelling and packaging of substances and mixtures (reg.(EC) No 1272/2008)

2008 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2011 TLVs and BEIs. (ACGIH)

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

Supplier's SDS

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