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Safety Data Sheet

1. Product and Company Identification

Product name :MICRON #123

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) :EN100810-3

2. Hazards Identification

GHS classification and label elements of the product

GHS classification

HEALTH HAZARDS

Skin corrosion/irritation : Category 2

Eye damage /eye irritation : Category 2

Carcinogenicity : Category 2

Specific target organ toxicity-single exposure : Category 2

Specific target organ toxicity-repeated exposure : Category 1



Signal word : Danger

HAZARD STATEMENT

Causes skin irritation.

Causes eye irritation

Suspected of causing cancer

May causes damage to organs after single exposure.

Causes damage to organs following repeated exposure.

PRECAUTIONARY STATEMENT

Prevention

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

Wash contaminated parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves.

Wear face protection.

Use personal protective equipment as required.

Response

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash before reuse.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: 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
Aluminium oxide	10 - 15	1344-28-1	-
Abrasive	5 - 10	Non Public	-
Water	35 - 40	7732-18-5	-
Kerosene	10 - 15	64742-81-0	-
Solvent	15 - 20	Non Public	-
Diethylaminoethanol	1.4	100-37-8	1-145
Emulsifier	1 - 5	Non Public	-
Silica	0.1 - 1	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

(Diethylaminoethanol)

ACGIH(1991) TWA: 2ppm (Skin)(URT irr; CNS convul)

(Aluminium oxide)

ACGIH(2007) TWA: 1 mg/m³(R) (Pneumoconiosis; LRT irr; neurotoxicity)

(Kerosene)

ACGIH(2001) TWA: 200mg/m³(P) (Skin)(Skin & URT irr; 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 :paste

Color :Blueish white

pH :ca 10.0

Flash point :No data

Specific gravity :ca 1.00

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

Oral toxicity component(s) data

(Diethylaminoethanol)

rat LD50 =1320mg/kg (SIDS(2003))

Dermal toxicity component(s) data

(Diethylaminoethanol)

rabbit LD50 =890mg/kg (ACGIH(2001))

Inhalation toxicity component(s) data

(Diethylaminoethanol)

vapor : rat LC50 =4.5mg/L=940ppm (ACGIH(2001))

Irritant properties

Skin corrosion/Irritation component(s) data

(Diethylaminoethanol)

rabbit 500 mg open ; MILD

Serious eye damage /irritation

Eye damage/irritation component(s) data

(Diethylaminoethanol)

rabbit 5 mg ; SEVERE

Carcinogenic effects

(Aluminium oxide)

ACGIH-A4(2007) : (Not Classifiable as a Human Carcinogen)

(Kerosene)

ACGIH-A3(2001) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

Specific target organ toxicity (single exposure cat.2)

(Diethylaminoethanol) systemic (SIDS (2003) et al)

Specific target organ toxicity (repeated exposure cat.1)

(Aluminium oxide) lung (EHC (1999))

Aspiration hazard

(Kerosene)

12. Ecological Information

Ecotoxicity

Aquatic toxicity

(Diethylaminoethanol)

Algae (Scenedesmus) ErC50=44mg/L/72hr (SIDS, 2004)

Water solubility

(Diethylaminoethanol)

miscible (ICSC, 2002)

(Aluminium oxide)

none (ICSC, 2000)

(Kerosene)

none (ICSC, 1998)

Persistence and degradability

(Diethylaminoethanol)

OECD test guide line 301A_Degradation/22days : 95%(SIDS, 2002)

Bioaccumulative potential

(Diethylaminoethanol)

log Pow=0.46 (ICSC, 2002) ; BCF < 6.1 (Check & Review, Japan)

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. Y :Diethylaminoethanol

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 :Aluminium oxide;Diethylaminoethanol;Kerosene;
Silica

PRTR law, Japan

Listed chemicals Gr.1 :Diethylaminoethanol

Fire protection law, Japan

Listed flammables : flammable solids ; (limited qty) 3000kg

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