PS-30S Serial number: PS-30S/E

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Safety Data Sheet

Date of issue: 2024/05/16
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1. IDENTIFICATION

Product name: Aluminium pigment POWDERSHINE PS-30S

Company name: TOYO ALUMINIUM K.K.

Address: 6-8, Kyutaromachi 3-chome, Chuo-ku, OSAKA, 541-0056, JAPAN

Section: Powder & Paste Team, Quality Assurance Unit

Telephone : +81-745-69-3489Emergency telephone : +81-745-69-3091

Recommended uses: Aluminium pigment for paint

2. HAZARD IDENTIFICATION

[Hazard Classification]

Physical Hazards Not applicable

Health Hazards Acute toxicity (oral) Category5

Specific target organ toxicity - repeated exposure Category1

(lungs) Category4

Environmental Hazards Hazardous to the aquatic environment - chronic

Other Hazards Not applicable

Hazards that aren't written as the above are "Can't classify" or "Not Classified."

[GHS Label elements]

Pictogram Signal word



H303 May be harmful if swallowed

H372 Causes damage to organs through prolonged or repeated exposure

(lungs)

H413 May cause long lasting harmful effects to aquatic life

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

 $P280\ Wear\ protective\ gloves/protective\ clothing/eye\ protection/face\ protection.$

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

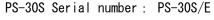
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378 In case of fire: Use metal fire powder for extinction.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with applicable regulations.





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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Chemical Name	Composition (%)	ENCS (Japan)	CAS
Aluminium flake	78.5 ~ 84.5	-	7429-90-5
Oleic acid	≦ 1	2-975	112-80-1
Methyl acrylate-methyl methacrylate copolymer	15.5 ~ 20.5	6-553	9011-87-4

4. FIRST-AID MEASURES

IF INHALATION: Move victim to fresh air and keep at rest and get medical attention.

IF ON SKIN: Remove contaminated clothing/shoes, wash contaminated area with clean running

water and soap. If inflammation or pain occurs, get medical attention/advice.

IF IN EYE: Immediately rinse with plenty of clean running water for 15 minutes or more and

get medical attention/advice. Not rub victim's eyes. In the case victim wears

contact lenses, remove them if possible.

IF SWALLOWED: Remove materials in mouth and get medical attention/advice.

Protection of the person who

In case of inhalation, first aid provider should wear protective mask, in case

gives the first aid: of skin contact, wear protective equipment such as rubber gloves.

Wear protective glasses if necessary.

5. FIRE-FIGHTING MEASURES

Dry sand, glass fiber clothing, mica powder Extinguishing media:

Unsuitable extinguishing Water, extinguishing media containing water, foam extinguishing media,

media. halogen extinguishing media, powder extinguisher by gas spray

Specific hazards: May generate irritative and/or toxic gas by fire. Burn if intensively heated.

> May cause extremely dangerous explosion especially in closed environment (building, ware house etc.). Package may explode by heat. Dust or fume may form explosive mixture gas with air. May ignite by friction, heat, spark or flame. Stirring aluminium powder or dust generation in fire emergency may cause dust

Specific fire-fighting method: explosion. If aluminium powder on the floor or in a container is burning, put mica powder or dry sand around the origin of fire without generating dust to form a circle for isolation and try smothering extinguishment by covering it by

dry sand, glass cloth. Treat or transport burned aluminum powder after confirming

the inside temperature did not rise after one day.

6. ACCIDENTAL RELEASE MEASURES

disaster:

Wear appropriate protective equipment (see 8. Exposure control/personal Personal precautions. protective equipment and protection) and avoid contact with eye/skin and inhalation of gas/dust.

emergency procedures: If in doors, adequately ventilate until processing is complete.

Environmental precautions: Do not release leakage to river or sewage directly.

Methods and materials for Stop leakage, if safe to do so. When leaked from the package wipe with cloth containment and cleaning up: (waste cloth) and store in sealed package where no water, acid or alkali

exists. Dispose of as industrial waste.

Prevention of secondary Use equipment that do not cause spark. Avoid flowing into drainage, sewage or

the basement and other closed places.

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7. HANDLING AND STORAGE

[Handling]

Engineering measures: Install equipment described in "8. EXPOSURE CONTROLS/PERSONAL PROTECTION"

for local exhaust/total ventilation.

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

Prohibit using high temperature material, spark or fire in surrounding area.

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

Wash the hands thoroughly after handling. Avoid swallow and contact with skin.

Use only outdoors or in a well-ventilated area.

Do not breathe dust, fume, gas, mist, vapor, spray.

Install ventilation for exhaust to keep the concentration in the air below

the exposure limit.

Avoid release to the environment.

[Storage]

Storage conditions: In the store room, install the day lighting, lighting, and ventilating

equipment needed for storing or handling the product.

Apply the fireproof structure to walls, pillars and floors of the storage

room

Use noncombustible material for beams.

For floors of the storage room, apply a structure that prevents water

influx/infiltration.

Store away from ignition sources such as heat, spark or fire.-No smoking.

Store away from oxidizing agent.

Store in sealed container at fixed place where protection from light and ventilation are adequate and temperature and humidity are appropriate.

Container material: Use containers specified by Fire Service Law or UN transport regulation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Administrative level, acceptable concentration limit

	Administrative level	Acceptable concentration limit	ACGIH
Aluminium flake	1	Inhalation dust 0.5mg/m3 Total dust 2mg/m3	TWA:1mg/m3(R) STEL: -

(Facility measures) Use explosion-proof electrical/ventilating/lighting equipment.

When dust/fume/mist/gas is generated at high temperature install ventilation

equipment to keep concentration of air pollutant below administrative

level/acceptable concentration limit.

Handle in the place where total ventilation is installed.

General proper ventilation is good for control the concentration in the air.

[Protective equipment]

Respiratory organ: Use dust respirator.

Hand: Use personal protective gloves as required.

Eye: Wear appropriate eye protection.
Skin and body: Wear appropriate face protection.

Use personal antistatic protective clothing and protective mask as required.

[Hygienic measures] Wash the hands thoroughly after handling.

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PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid (powder) Colour: Silver-white Odour: Odor Less

Initial boiling point and boiling range: If data is available, it is described below.

Flammability: Not applicable

Explosion limit: If data is available, it is described below. Flash point: If data is available, it is described below. If data is available, it is described below. Auto-ignition temperature:

Decomposition temperature: N A pH: N. A. Kinematic viscosity: N. A.

If data is available, it is described below. Vapor pressure:

Relative density (g/cm3, calculted): 2. 1 Relative vapour density: N.A. Particle characteristics (D50) (μ m): 1 - 100

10. STABILITY AND REACTIVITY

Stable in air or under light shielded condition. Stability:

Hazardous/harmful reactivity: React with water, acid, alkali, oxidizing agent metal oxide, halogen compound

and generate hydrogen gas. Heat accelerates the reaction.

Sealed container elevates inner pressure and may burst or the content may blow

out and it is especially dangerous.

Conditions to avoid: Avoid contact with flame, spark, high temperature material and heating.

Incompatible materials: Avoid contact with water, acid, alkali, oxidizing agent (peroxide, sulfuric

acids etc), metal oxides (iron oxide etc.), halogen compounds (chlorine carbon

hvdrides).

Hazardous decomposition

May generate hydrogen gas.

products:

11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral) 2000mg/kg<ATEmix≤5000mg/kg and classified as Category 5.

Acute toxicity (dermal) Not applicable to category Acute toxicity (inhalation) Not applicable to category Skin corrosion or irritation Not applicable to category Serious eye damage or eye Not applicable to category

irritation

Respiratory sensitization Not applicable to category Skin sensitization Not applicable to category Germ cell mutagenicity Not applicable to category Carcinogenicity Not applicable to category Reproductive toxicity Not applicable to category

Specific target organ toxicity -Category 1 is more than 1% and classified as Category 1.

repeated exposure

Specific target organ toxicity -

Not applicable to category

single exposure

Aspiration hazard Not applicable to category

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12. ECOLOGICAL INFORMATION

Hazardous to the aquatic environment - acute

Not applicable

Hazardous to the aquatic environment - chronic

Category 1+2+3+4 is more than 25% and classified as Category 4.

Hazardous to the Ozone Laver

Not applicable

Persistence and degradability: No information at this point. Bioaccumulation: No information at this point. Mobility in soil: No information at this point. Other hazards: No information at this point.

13. DISPOSAL CONSIDERATIONS

Disposal: Do not reuse empty package.

Do not put sealed container in a flame.

Do not weld or melt down. When dispose of waste product and empty container

commission to legally approved industrial waste disposer.

Contaminated container and

packing:

Confirm that there is not breakage, corrosion, leakage etc. of the package. Pile containers in a way that does not cause falling, tumbling or breakage. Put appropriate cover to avoid direct sunlight and penetration of rain.

Transfer the container avoiding significant friction or shaking. Pack, label and transfer according to related regulations.

14. TRANSPORT INFORMATION

Land Transportation: Comply with regulations. When the product significantly leak and there is a risk

of fire during transportation take precautionary measures to prevent the fire

and inform nearest fire service station.

Marine transportation: Comply with regulations. Air transportation: Comply with regulations. UN class: Not applicable International regulation:

> UN number: -Packing group

Proper shipping name: Not applicable

Marine Pollutant: Not applicable

15. REGULATORY INFORMATION

Ensure this material is on compliance with federal requirements and ensure

it is conformity to local regulations.

16. OTHER INFORMATION

References ·

GHS of Classification and Labelling of Chemicals Recommendations on the TRANSPORT OF DANGEROUS GOODS

Chemical Risk Information Platform, National Institute of Technology and

Evaluation (NITE)

Safety Data Sheet is to provide reference information to assure the sage handling of the product. The descriptions herein are based on the currently available sources, information and data but no guarantee is given for its contents, physico-chemical properties, risk or hazard. The precautions herein are for normal handling. If you use this product under the special conditions, take safety measures appropriate for the special use and usage.