

Safety Data Sheet

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1. IDENTIFICATION

Product name : Aluminium pellet METAX NEO NME005N1
 Company name : TOYO ALUMINIUM K.K.
 Address : Midosuji Daiwa Bldg., 6-8, Kyutaromachi 3-chome, Chuo-ku, OSAKA, 541-0056, JAPAN
 Section : Quality Assurance Dept.
 Telephone : +81-745-69-3489
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 Recommended uses : Aluminium pigment master batch for plastic molding

2. HAZARD IDENTIFICATION

[Hazard Classification]

Physical Hazards Not applicable
 Health Hazards Not applicable
 Environmental Hazards Not applicable
 Other Hazards Not applicable

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Chemical Name	Composition (%)	ENCS (Japan)	CAS
Aluminium flake	69 ~ 71	-	7429-90-5
Polyethylene	29 ~ 31	6-1	9002-88-4

4. FIRST-AID MEASURES

IF INHALATION: Not likely to inhale pellets due to their physical form. If inhale gases and/or fumes from the molten resin at high temperature, move to a place of fresh air. If coughing and/or difficult breath occurs, get immediate medical attention /advice.

IF ON SKIN: Wash well with water. If condenses of gas generated from the substance molten at high temperature, wash well with soapy water. In case of molten plastic contact with skin, cool immediately with water and get medical attention.

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: No acute toxicity if swallowed.
If large amount swallowed, get medical attention/advice.

Protection of the person who gives the first aid: In case of inhalation, first aid provider should wear protective mask, in case of skin contact, wear protective equipment such as rubber gloves.
Wear protective glasses if necessary.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Powder extinguisher, carbon dioxide gas, dry sand, glass fiber clothing
 Unsuitable extinguishing media: Water, extinguishing media containing water, halogen extinguishing media
 Specific fire-fighting method: Aluminum powder will ignite and burn with white light with releasing large heat. Try smothering extinguishment by covering the origin of fire by dry sand, glass cloth at this stage of fire. Continue smothering extinguishment until aluminum get cold because inside may be still burning without flame even when it seems to be extinguished. Treat or transport burned aluminum powder after confirming the inside temperature did not rise after one day. Product that is not burning should be removed promptly to safe place.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: If spilled on the floor, it makes floor slippery and mind your step.
 Environmental precautions: Do not release leakage to river or sewage directly.
 Methods and materials for containment and cleaning up: Collect in container rapidly and clean up.
 Prevention of secondary disaster: Use equipment that do not cause spark. Avoid flowing into drainage, sewage or the basement and other closed places.

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. Do not breathe dust, fume, gas, mist, vapor, spray. Clean the floor not to deposit dust produced by machinery processing (cutting or sanding etc). Take measures to prevent static electricity disaster.
 [Storage]
 Storage conditions: Store away from ignition sources such as heat, spark or fire. -No smoking. 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	-	Inhalation dust 0.5mg/m ³ Total dust 2mg/m ³	TWA:1mg/m ³ (R) STEL: -

【Facility measures】 Require the local exhaust ventilation in the working place.

【Protective equipment】

Respiratory organ: Wear dust respirator during machinery processing or sanding of resin which produces dust.
 When working under high dense gases and/or fumes circumstances, wear organic gas respirator.

Hand: Wear heat-resistant gloves when handling molten resin.

Eye: Wear plastic safety goggles during machinery processing or sanding of resin which produces dust.

Skin and body: Wear long sleeve clothing when handling molten resin.

【Hygienic measures】 Wash the hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid (pellet form)
Colour:	Silver-white
Odour:	-
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.
Auto-ignition temperature:	If data is available, it is described below.
Decomposition temperature:	N. A.
pH:	N. A.
Kinematic viscosity:	N. A.
Vapor pressure:	If data is available, it is described below.
Relative density(g/cm ³ , calculated):	1.7
Relative vapour density:	N. A.
Particle characteristics(D50) (μm):	1-100

Components	Flash point(°C)	Ignition point(°C)	Initial boiling point(°C)	Boiling point(°C)	Vapour pressure	Density (Air=1)	Explosion limit(%)	
							Upper	Lower
Polyethylene	-	400	-	-	-	-	-	-

10. STABILITY AND REACTIVITY

Stability:	Stable in air or under light shielded condition.
Hazardous/harmful reactivity:	Emit gas from high temperature fusion wax by heating.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral)	Not applicable to category
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 irritation	Not applicable to category
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 - repeated exposure	Not applicable to category
Specific target organ toxicity - single exposure	Not applicable to category
Aspiration hazard	Not applicable to category

12. ECOLOGICAL INFORMATION

Hazardous to the aquatic environment - acute	Not applicable
Hazardous to the aquatic environment - chronic	Not applicable
Hazardous to the Ozone Layer	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.
International regulation:	UN class : Not applicable 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)
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Safety Data Sheet is to provide reference information to assure the safe 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.