

MATERIAL SAFETY DATA SHEET

MANUFACTURER:	MATSUGAKI CHEMICAL INDUSTRIES CO. , LTD.
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MSDS NO. OG-00105

SECTION I MATERIAL IDENTIFICATION

TRADE NAME	Amalgam Pellets CH-12
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SECTION II HAZARDOUS INGREDIENT OF MIXTURES

CHEMICAL NAME	Amalgam Pellets (MIXTURE)		
CONTENT	In	31.7%	
	Bi	64.3%	
	Hg	4%	

SECTION III PHYSICAL DATA

APPEARANCE		Mirror-Like silvery pellets
DENSITY		5~10
MELTING POINT		40~120°C
VAPOR PRESSURE		15°C YES

SECTION IV REVIEWS STANDARDS

for Mercury	ACGIH TLV-TWA 0.05mg(Hg)/m ³ (Vapor skin)
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SECTION V FIRST AID

for Mercury	Contamination of the eyes should be treated by immediate and prolonged Irrigation with copious amounts of water. In case of contact, immediately wase skin with soap and copious Amounts of water. If inhaled, remove to fresh air. If not breathing is artificial respiration. If breathing is difficult, give oxygen. If ingested, wash out mouth with water. Call a physician. Discard contaminated clothing and shoes.
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SECTION VI HANDLING AND STORAGE

for Mercury	Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant Gloves, safety, goggles other protective clothing. Safety shower and eye bath. Use only in a chemical fume hood. Do not breathe vapor. Avoid contact with eyes, skin and clothing. Readily absorbed through skin. Wash thoroughly after handling. Highly toxic. Irritant. Sensitizer. Neurological hazard. Mixtures of mercury with acetylene, ammonia, chlorine dioxide, methyl azide, Chlorates, nitrate, and hot sulfuric acid can be explosive.
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SECTION VII TOXICITY DATA

for Mercury	TDLO 150mg/m ³	46DAY WOMEN
	LCL0 29mg/m ³	30Ho (RABBITE)

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Blended Phosphor

Product Code: SP-96B

General Use: Fluorescent Lamp

Product Description: Lamp Phosphor

This product is solid solution.

MSDS Number: SP96BCH091028

MANUFACTURER:

Company Name: NICHIA SHANGHAI CORPORATION

Address: 622 Song Sheng Road, Song Jiang, Shanghai, CHINA

Telephone number: +86-21-57746358

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical formula: BaMgAl₁₀O₁₇:Eu (CAS No.: 102110-17-8, EINECS No.: 310-015-7)

LaPO₄:Ce,Tb (CAS No.: 95823-34-0)

Y₂O₃:Eu (CAS No.: 68585-82-0, EINECS No.: 271-591-2)

Component	Chemical name	Wt%	CAS Registry#	EINECS No.
BaO	Barium oxide	<5	1304-28-5	215-127-9
MgO	Magnesium oxide	<2	1309-48-4	215-171-9
Eu ₂ O ₃	Europium oxide	<3	1308-96-9	215-165-6
Al ₂ O ₃	Aluminium oxide	<20	1344-28-1	215-691-6
La ₂ O ₃	Lanthanum oxide	<16	1312-81-8	215-200-5
Ce ₂ O ₃	Cerium oxide	<16	1345-13-7	215-718-1
Tb ₂ O ₃	Terbium oxide	<5	12036-41-8	234-849-5
P ₂ O ₅	Phosphoric anhydride	<18	1314-56-3	215-236-1
Y ₂ O ₃	Yttrium oxide	<40	1314-36-9	215-233-5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: No hazardous product as specified.

POTENTIAL HEALTH EFFECTS: No information available.

POTENTIAL ENVIRONMENTAL EFFECTS: No information available.

4. FIRST AID MEASURES

INHALATION: Move in place of fresh air and rest quietly in bed and take a medical advice if necessary.

EYE : Take measures of a doctor after having washed its eyes with clean water promptly more than 15 minutes.

SKIN : Wash away with a large quantity of water and soap. When a symptom of a pain came out, take a medical advice if necessary.

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INGESTION : Wash mouth with water well. If possible, insert a finger in a throat to spit out and take a medical advice suddenly.

PROTECTION TO FIRST-AIDERS:

Ensure adequate ventilation. Wear suitable protective clothing.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: This product is nonflammable.

EXTINGUISHING MEDIA: Dry chemical, CO₂, water spray or regular foam.

FIREFIGHTING INSTRUCTIONS:

Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:

Eliminate all ignition sources, use explosion-proof equipment. The very fine particles can cause fire or explosion. Vacuum or sweep material and place in a disposal container.

Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

WATER SPILL:

The material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin or clothing.

Use with adequate ventilation.

Wear safely glasses or goggles and rubber gloves.

Wash thoroughly after handling.

STORAGE: Store in a cool and dry place away from possible contact with acid.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:

ACGIH (2008): TLV-TWA 1mg/m³ as Y

EXPOSURE CONTROLS

Occupational Exposure Controls

Engineering Controls:

Use local exhaust ventilation to keep airborne concentration below exposure limits.

Personal Protection

Respiratory Protection: Air-purifying respirator

Hand Protection: Rubber gloves

Eye/Face Protection: Protection glasses

Skin Protection: Protection clothes

Environmental Exposure Controls: No information available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Powder

Color: White

Odor: Odorless

pH: No information available.

Melting Point: No information available.

Flash Point: Not applicable.

Flammability: Not applicable.

Specific Gravity: 4.0~5.0

Solubility in Water: Insoluble

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Contact with strong acid.

STABILITY: Stable

MATERIALS TO AVOID: No information available.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS: No information available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No information available.

(Oral, Dermal, Inhalation)

Eye Irritation: No information available.

Skin Irritation: Repeated exposure may cause skin dryness or cracking.

Sensitization: No information available.

Mutagenicity: No information available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No information available.

PERSISTENCE AND DEGRADABILITY: No information available.

BIOCCUMULATIVE POTENTIAL: No information available.

13. DISPOSAL CONSIDERATIONS

Comply with all EU, national and local regulations.

Do not dump this material into sewers, on the ground or into any body of water.

Product:

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies who will advise you on how to dispose of special waste.

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Packaging:

Disposal in compliance with official regulations. Handle contaminated packing in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION

This product is not classified as dangerous goods on the definition of the U.N. advice.

LAND TRANSPORT

ADR, RID

Class: Not Applicable

Packing Group (PG): Not Applicable

UN Number: Not Applicable

Proper Shipping Name: Not Applicable

SEA TRANSPORT

IMDG

Class: Not Applicable

Packing Group (PG): Not Applicable

UN Number: Not Applicable

Proper Shipping Name: Not Applicable

Marine Pollutant: NO

AIR TRANSPORT

ICAO/IATA

Class: Not Applicable

Packing Group (PG): Not Applicable

UN Number: Not Applicable

Proper Shipping Name: Not Applicable

15. REGULATORY INFORMATION

No hazardous product as specified in Directive 67/548/EEC.

Please refer to any other EU, national and local measures.

16. OTHER INFORMATION

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