First issue

01-Oct-03

Revised MSDS No. A8AT(1-3)

# Asahi **KASEI**

# ASAHI KASEI CHEMICALS

## MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

ASAHI-KASEI ALUMINIUM PASTE

HR-21, HR-51, HR-9901, HR-808, HR-6601, HR-7000, HR-8801, HR-450, HR-650, HR-850

COMMON NAME

Aluminium Paste

GENERAL USE

For coating

PRODUCT DESCRIPTION

Resin coated flaky aluminium pigment in mineral spirit

and solvent naphtha(petroleum distillate)

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COMPANY NAME

Performance Coating Materials Marketing & Sales Dept.

Performance Coating Materials Division Asahi Kasei Chemicals Corporation

ADDRESS

Hibiya-Mitui Bldg., 1-2, Yuraku-cho 1-chome,

Chiyoda-ku, Tokyo 100-8440, Japan

TELEPHONE NUMBERS:

+81-3-3507-2433(9am- 6pm Japan Time M-F)

FAX NUMBER

+81-3-3507-2419

**EMERGENCY TELEPHONE NUMBERS** 

LOCAL CONTACT

See section 16. OTHER INFORMATION

Asahi Kasei Chemicals Corporation

Telephone

+81-3-3507-2433(9a.m.- 6p.m. Japan Time M-F)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### COMPOSITION

Component	Wt%	CAS No.	TSCA	EINECS No.	OSHA PEL	ACCIH-TLV -TWA
Aluminium Flake	41~58	7429-90-5	On Inventory	231-072-3	15mg/m3(*1)	10mg/m3
Acrylic Polymer	4~9	185800-06-0	*3	*4		
Mineral spirit (*2)	27~45	64742-81-0,	On Inventory	265-184-9	500ppm	100ppm
		64741-68-0	On Inventory	265-070-9		
Solvent naphtha (*2)	0~17	64742-95-6	On Inventory	265-199-0		

\*1: Total dust . \*2: Stoddard solvent These solvent ratio are typical value.

\*3:To import these products into USA, it is necessary to follow the procedure about PMN exemptions.
\*4:Acrylic Polymer is eligible for polymer exemptions.

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#### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Inflammable solid. Vapor causes irritation of eye and

an inflammation of membranes.

APPEARANCE AND ODOR :

Metallic aluminium paste, Organic solvent odor.

## POTENTIAL HEALTH EFFECTS :

PRIMARY ROUTE OF EXPOSURE

INHALATION

Qualm. Vapor may cause eye and skin irritation.

EYE CONTACT SKIN ABSORPTION Irritation.
Inflammation.

INGESTION

Emesis. The ingestion of this material may cause

a burning pain in the mouth and throat, vomit, diarrhea,

kidney and liver damage.

CHRONIC TOXICITY / CARCINOGENICITY

Chronic inhalation may affect the respiratory system

and result in aluminium pneumoconiosis.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Headache, Vertigo, Anemia

#### 4. FIRST AID MEASURES

### **EMERGENCY FIRST AID MEASURES**

Seek medical assistance for further treatment,

observation and support if necessary.

INHALATION

Move to fresh air if difficulty is experienced in

breathing and get medical attention immediately.

EYE CONTACT

Flush with plenty of water for at least 15 minutes

and get immediate medical treatment.

SKIN CONTACT

Flush with soap and water.

INGESTION

Get medical help immediately to vomit and wash

out the aluminium pigment.

NOTE TO PHYSICIAN

Treat symptomatically. Treatment may vary with

condition of victim and specifics of incident.

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#### 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash point and Method

112° F (44.6°C)(HR-450)

(Seta Closed Cup)

110° F (43°C)(HR-850.HR-6601,HR-9901)

(Seta Closed Cup)

Flammable Limits

Flammable as mineral spirit, 1.4% to 7.6% by volume. Flammable as solvent naphtha, 1.0% to 6.0% by volume.

Auto-ignition Temperature

Not available.

**EXTINGUISHING MEDIA** 

Carbon dioxide, Fire resistant blanket,

Dry fine sand.

NOT QUALIFIED EXTINGUISHING MEDIA Water

### FIRE FIGHTING INSTRUCTIONS

Small fires involving aluminium and solvent mixtures

can best be fought by restricting the oxygen supply.

Avoid direct water stream.

Avoid disturbing the burning aluminium.

Wear full lung gear including a positive pressure selfcontained breathing apparatus in any closed space.

### 6. ACCIDENTAL RELEASE MEASURES

Spills should be removed conductive non-sparking shovels, soft brooms or brushes having bristles of natural fibers.

The disposal of any aluminium paste should be discussed with the manufacturer as soon as possible.

## 7. HANDLING AND STORAGE

STORAGE

Store away from open fire, heat and humidity at ambient

temperature in a well-ventilated area.

Store indoors and below 104  $^{\circ}$  F(40°C). Store preferably between 59  $^{\circ}$  F and 77  $^{\circ}$  F (15~25°C). Do not store in same area as oxidizing agents or combustible

materials.

HANDLING

The precautions usually advised for handling materials

containing flammable solvents should be taken.

Remove from sources of ignitions.

Protect against water, acid and alkaline material.

Wear personal protective equipment as described in section 8.

Workshops should be well ventilated.

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## MATERIAL SAFETY DATA SHEET

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS** 

Skin Protection

Use with adequate explosion-proof ventilation to

meet exposure limits listed in Section 2.

### PROPOSAL PROTECTIVE EQUIPMENT

Respiratory Protection

Respirator for organic solvent

Eye Protection

Side-sealed protective glasses or goggles.

Solvent-proof gloves.

HYGIENIC WORK

Long-sleeved working clothes. When handling aluminium paste do not eat, drink,

smoke or snuff. Take off all contaminated clothing.

Clean hands with water and soap.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Metallic aluminium paste, Organic solvent odor.

Color

Metallic silver. Organic solvent odor.

Odor **Boiling Point** 

320 $\sim$  392 ° F (160  $\sim$  200°C) as mineral spirit.

302~ 365° F (150 ~ 185°C) as solvent naphtha.

**Physical State** 

Paste(Semisolid).

Vapor Pressure

2mmHg(Mineral spirit, SI unit →266Pa) at 20°C

Vapor Density

Not available.

Solubility in water

Not soluble in water.

Specific Gravity

1.1 ~ 1.4

% Volatile

37 ~ 51

### 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable

Thermal Stability

Product can release vapors(heavier than air) that can

form explosive mixtures with air.

The resulting aluminium flake when disturbed could form

a dust cloud.

This cloud could explode if a spark or other ignition

source is also present

CONDITIONS TO AVOID

Avoid store in a warm room.

Store indoors and below 104 \* F(40°C).

Store preferably between 59 ° F and 77 ° F (15~25°C).

## INCOMPATIBILITY WITH OTHER MATERIALS

Water, Acids, Alkalis, Chlorinated hydrocarbons, Peroxides.

## HAZARDOUS DECOMPOSITION PRODUCTS

Avoid contact with Water, Acids, or Alkalis,

to form hydrogen gas.

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## MATERIAL SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

Not available.

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATION

Dispose of according to local and national laws and regulations.

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

14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT)

Hazardous Materials: YES

Hazardous Materials Description and Proper Shipping Name :

ALUMINIUM POWDER, COATED

Technical Shipping Name:

**ALUMINIUM PASTE** 4.1 Flammable solids

Hazard Class or Division :

Identification Number:

UN1309 П

Packing Group (PG): Label Required:

4.1

SEA TRANSPORT

IMDG

4.1 Flammable solids

Class: Packing Group (PG):

I 1309

UN Number:

Proper Shipping Name: ALUMINIUM POWDER, COATED

AIR TRANSPORT

ICAO/IATA

Class:

4.1 Flammable solids

Packing Group (PG):

1

1309 UN Number:

Proper Shipping Name : ALUMINIUM POWDER, COATED

# 15. REGULATORY INFORMATION

All components except acrylic polymer (CAS Registry No. 185800-06-0) are on TSCA(USA) / EINECS(EU) / DSL(Canada) / AICS(Australia) / ECL(KOREA) / PICCS(Philippine) Inventories.

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China:

All components are on CRC-SEPA Inventory.

TSCA:

Acrylic polymer (CAS Registry No. 185800-06-0) is eligible for PMN exemptions. (40 CFR 723.250, polymer exemption)

To import these products into USA, it is necessary to follow the procedure about PMN exemptions.

EINECS :

Acrylic polymer (CAS Registry No. 185800-06-0) is eligible for EINECS polymer exemptions.

KOREA:

Acrylic polymer (CAS Registry No. 185800-06-0) is eligible for ECL exemptions.

Ensure compliance with all national and local regulations applicable to this material.

16. OTHER INFORMATION

MSDS status

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For further information, please contact:

Performance Coating Materials Marketing & Sales Dept.

Performance Coating Materials Division

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*LOCAL CONTACT	,		
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