

## SAFETY DATA SHEET – FLINTS SILVER ALUMINIUM POWDER

### 1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

**Product Name / Code:** Flints Silver Flake Aluminium Powder – Coated 250 g / DPP25712  
Flints Silver Flake Aluminium Powder – Coated 1 kg / DPP2571

**REACH Key Notes:** Registration Number: 01-2120762792-46-xxxx

CAS No. 7429-90-5

EC No: 231-072-6

**Application of Substance:** Powder Metallurgy, Decorative Castings/Coatings.

**Company:** Flints Theatrical Chandlers Ltd  
Unit 9 Deptford Trading Estate  
Blackhorse Road  
SE8 5HY

**Telephone:** +44 (0) 20 7703 9786

**Email:** sales@flints.co.uk

Telephone operated from 08:30 – 17:30 Monday to Friday, 09:00 – 14:00 Saturday.  
In an emergency, seek advice from a medical professional.

### 2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]: Flam. Sol. 1 H228 Flammable solid

Labelling according to Regulation (EC) No 1272/2008 [CLP]:

**Signal Word:** Danger

**Hazard statements:** H228 Flammable solid

H261 Contact with water releases flammable gas

**Precautionary statements:** P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232 Handle under inert gas. Protect from moisture.

P335 + P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/...../equipment.



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

P370 + P378 In case of fire: Use special powders for metal fires or Sand for extinction.

P402 + P404 Store in a dry place. Store in a closed container.

P501 Dispose of contents as hazardous waste to landfill.

**Other hazards:**

Fine dust clouds may form an explosive mixture with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. May be combustible.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBT's or vPvB's or have been assigned a workplace exposure limit and hence require reporting in this section.

Classification System is according to latest editions of EU lists and is extended by company and literature data.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Description of Material:** Aluminium Powder (stabilised)

**Synonyms:** None

**Chemical Composition:**

EINECS N°	CAS N°	INDEX N°	Chemical name	Conc. (% w/w)	Hazard class and category code	Hazard statement
231-072-3	7429-90-5	013-002-00-1	Aluminium	>80	F	Flam. Sol. 1 H228

**4. FIRST AID MEASURES**

**General Advice:** First aid followed by medical attention.

**Eyes:** Rinse opened eye for several minutes under running water. Seek medical attention if irritation persists.

**Skin:** Wash with mild soap and water. Generally the product does not irritate the skin. Seek medical advice if irritation occurs/persists.

**Ingestion:** Wash mouth out with water, seek medical attention if symptoms occur.

**Inhalation:** Move exposed person to fresh air. Keep warm and at rest. Seek medical attention as soon as possible.

**5. FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Dry sand, dry powder extinguisher, fire blanket.

**Unsuitable Extinguishing Media:** Water, carbon dioxide, foam, ABC powder.

**Special hazards:** Contact with water liberates extremely flammable gas (hydrogen).

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**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear protective equipment.  
Keep unprotected persons away.  
Avoid formation of dust.

**Environmental precautions:** Do not allow product to reach ground water, water bodies or sewerage system.

**Methods for cleaning up:** Pick up manually. DO NOT USE a vacuum.

**Reference to other sections:** See also sections 8 and 13.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Close containers carefully after use.  
Maintain good housekeeping to avoid causing dust and deposit of dust.  
Keep away from sources of ignition. No smoking.  
Use intrinsically safe equipment and non-sparking tools.  
Protect against electrostatic charges (e.g use full metal shovels) whilst refilling connect containers with earthing clamps.

**Conditions for safe storage:** Store in cool dry place in non-combustible containers (original containers preferred). Do not store with oxidising agents, other combustible materials, acids or alkalis. Store away from steam pipes, radiators or other sources of heat or moisture.

**Specific end uses:** None

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Control Parameters:** OES: Average daily value (8hr TWA): 10 mg/m<sup>3</sup> total dust  
4 mg/m<sup>3</sup> respirable fraction  
  
(Ref: EH40/2005 as consolidated with amendments Oct 2007.)  
  
National exposure control limits must be considered where appropriate.

**Respiratory protection:** Cartridge filter type P 1 according to EN 149:2001 is recommended if exposure control limit is exceeded.

**Hand Protection:** Gloves according to EN 388 and 407 are recommended.

**Eye Protection:** Tight safety goggles.

**Body Protection:** Non-conductive and fireproof clothing (e.g Nomex III antistatic) according to EN 531 and 1149-1.

**Foot Protection:** Non-conductive boot according to EN345.

**General Safety and Hygiene:** In general, no pure synthetic fibres (electrostatic charge). Wash hands before breaks and at the end of work.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Silver grey powder

**Odour:** Slight waxy. No data available for odour threshold.

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<b>pH:</b>	No data available.
<b>Melting Point:</b>	660°C
<b>Initial boiling point and boiling range:</b>	2467°C
<b>Flash point:</b>	590°C
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	< 10 minutes (Ann. A9 CD 67/548/EEC).
<b>Upper/lower flammability or explosive limits:</b>	Product is not hazardous with regard to explosions, however it may form an explosive dust/air mixture.
<b>Vapour pressure:</b>	No data available.
<b>Vapour density:</b>	No data available.
<b>Relative density:</b>	2.7 g/cm <sup>3</sup> at 20°C.
<b>Specific weight:</b>	No data available.
<b>Water solubility:</b>	Insoluble.
<b>Partition coefficient: n octanol/water:</b>	No data available.
<b>Auto ignition temperature:</b>	No auto ignition.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.
<b>Explosive properties:</b>	Lower limit 30g/m <sup>3</sup> , upper Limit not determined.
<b>Oxidizing properties:</b>	No data available.

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No decomposition in usual conditions.
<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Possibility of hazardous reactions:</b>	Avoid dust clouds, they may form explosible dust-air-mixture. Reacts with halogenated compounds. Reacts with acids, alkalis and oxidizing agents. Reacts with alkalis, acids, halogens and oxidizing agents. Contact with acids and alkalis may release hydrogen. Contact with water may release flammable gases. Risk of dust explosion.

## 11. TOXICOLOGICAL INFORMATION

There is no data available on the mixture itself. The product is not classified as hazardous according to Regulation (EC) No. 1272/2008 as amended.

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Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Exposure to airborne concentrations above statutory or recommended limits may cause irritation of the eyes. Fine dust clouds may form explosive mixtures with air.

<b>Acute toxicity:</b>	Not determined - Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS).
<b>Skin corrosion/irritation:</b>	Not determined - Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS).
<b>Respiratory or skin sensitisation:</b>	Not determined - Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS).
<b>Reproductive toxicity:</b>	Not determined - Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS).
<b>Specific target organ toxicity - single exposure:</b>	Not determined - Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS).
<b>Specific target organ toxicity - repeated exposure:</b>	Not determined - Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS).
<b>Aspiration hazard:</b>	Not determined - Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS).

## 12. ECOLOGICAL INFORMATION

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

<b>Ecotoxicity:</b>	The product is not classified as hazardous according to Regulation (EC) No. 1272/2008 as amended.
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## 13. DISPOSAL INFORMATION

<b>Product:</b>	Remove in accordance with local official regulations. Dispose of at a hazardous waste landfill. Allocation of a waste code number (12 01 04) non-ferrous metal dusts and particles according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.
<b>Used packaging material:</b>	Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

**14. TRANSPORT INFORMATION**

	ADR/RID	IMDG	IATA
14.1 UN number	1309	1309	1309
14.2 UN Proper shipping name	ALUMINIUM POWDER, COATED	ALUMINIUM POWDER, COATED	ALUMINIUM POWDER, COATED
14.3 Transport Hazard Classe(s)	4.1 Flammable solids, self-reactive substances and solid desensitised explosives	4.1 Flammable solids, self-reactive substances and solid desensitised explosives	4.1 Flammable solids, self-reactive substances and solid desensitised explosives
14.4 Packing group	II	II	II
14.5 Environmental Hazards	Not Classified as hazardous	Not Classified as hazardous	Not Classified as hazardous
14.6 Special Precautions for user	(*)	EmS: F-G, S-G (*)	(*)
14.7 Transport in Bulk according to Annex II of Marpol73/78 and the IBC code	Not applicable	Not applicable	Not applicable
14.8 Labelling			
Additional Information	Limited Quantities LQ8 Transport Category 2 Tunnel Restriction Code E		
(*) - The transport, comprising charge and discharge, must be made by people who have been trained on 'Dangerous Goods Regulations'			

**15. REGULATORY INFORMATION**

EU Regulation (EC) No. 1907/2006 (REACH). Annex XIV – List of substances subject to authorization. Substances of Very High Concern.	None of the components are listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.	Not applicable

**Chemical Safety:** Has been carried out.

**16. OTHER INFORMATION**

This data sheet is provided under CLP and REACH Regulation and is not intended to constitute an assessment of work place risk associated with product(s) used as required under any other Health and Safety Regulation. This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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**Disclaimer:** Every care is taken in compiling this information and is believed accurate and reliable as of the date indicated. However, Flints Theatrical Chandlers Ltd disclaims all liability for any loss, damage or expense arising

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from any inaccuracy therein. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own use.