MATERION

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or AlBeMet® Powder

designation of the mixture

Registration number -

Document number M20

Synonyms Aluminum Beryllium Matrix, AlBeMet® 120, AlBeMet® 130, AlBeMet® 140, AlBeMet® 150,

AlBeMet® 160, AlBeMet® 162, AlBeMet® 562

Issue date 16-April-2024

Version number 01

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Materion Brush Inc. **Address** 6070 Parkland Boulevard

Mayfield Heights, OH 44124

United States

Division

Telephone 1.216.383.4019

e-mail Materion-PS@materion.com **Contact person** Product Stewardship Director

1.4. Emergency telephone

number

1.216.383.4019

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified usesNot available.Uses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company nameMaterion Brush Inc.Address6070 Parkland Boulevard

Mayfield Heights, OH 44124

United States

Division

Telephone 1.216.383.4019

e-mail Materion-PS@materion.com **Contact person** Product Stewardship Director

1.4. Emergency telephone 1.216.383.4019

numbe

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable solids Category 2 H228 - Flammable solid.

Health hazards

Acute toxicity, oral Category 3 H301 - Toxic if swallowed.

Acute toxicity, inhalation Category 2 H330 - Fatal if inhaled.

Skin corrosion/irritation Category 2 H315 - Causes skin irritation.

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Material name: AlBeMet® Powder SDS GREAT BRITAIN

Skin sensitisation H317 - May cause an allergic skin Category 1

reaction.

Carcinogenicity Category 1B H350 - May cause cancer by

inhalation.

Specific target organ toxicity - single exposureCategory 3 respiratory tract irritation H335 - May cause respiratory

irritation.

Specific target organ toxicity - repeated

exposure

Category 1

H372 - Causes damage to organs (respiratory system) through prolonged or repeated exposure by

inhalation.

Environmental hazards

Hazardous to the aquatic environment,

long-term aquatic hazard

Category 2

H411 - Toxic to aquatic life with

long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Aluminium, Beryllium

Hazard pictograms





Signal word Danger

Hazard statements

H228	Flammable solid.
H228	Flammable solid.
H301	Toxic if swallowed.

May cause cancer by inhalation. H350

Causes skin irritation. H315

May cause an allergic skin reaction. H317 Causes serious eye irritation. H319

Causes damage to organs (respiratory system) through prolonged or repeated exposure by H372

inhalation. Fatal if inhaled.

H330 May cause respiratory irritation. H335

Toxic to aquatic life with long lasting effects. H411

Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P260	Do not breathe dust.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

R

P284	Wear respiratory protection.
Response	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P330	Rinse mouth.
P302 + P350	If on skin: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTRE/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P320	Specific treatment is urgent (see this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.

Material name: AlBeMet® Powder 2877 Version #: 01 Issue date: 16-April-2024 P391 Collect spillage.

Storage

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

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

Restricted to professional users. 80 % of the mixture consists of component(s) of unknown acute oral toxicity. 100 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 80 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

Exposure to the elements listed in Section 3 by inhalation, ingestion, and skin contact can occur when melting, casting, dross handling, pickling, chemical cleaning, heat treating, abrasive cutting, welding, grinding, sanding, polishing, milling, crushing, or otherwise heating or abrading the

surface of this material in a manner which generates particulate.

For further information, please contact the Product Stewardship Department at +1.216.383.4019.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Aluminium	38 - 80	7429-90-5 231-072-3	01-2119529243-45-0056	013-002-00-1	#
	Classification: Flam. Sol.	1;H228, Pyr. Sol. 1;	H250, Water-React. 2;H261		Т
Beryllium	20 - 62	7440-41-7 231-150-7	01-2119487146-32-0000	004-001-00-7	#
	Classification: Skin Sens.	1;H317, Carc. 1B;H	350i, STOT SE 3;H335, STOT	RE 1;H372	

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information If exposed or concerned: get medical attention/advice. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Call a poison centre or doctor/physician if you feel unwell. Breathing difficulty caused by inhalation

of particulate requires immediate removal to fresh air. If breathing has stopped, perform artificial

respiration and obtain medical help.

Skin contactTake off contaminated clothing and wash before reuse. Thoroughly wash skin cuts or wounds to

remove all particulate debris from the wound. Seek medical attention for wounds that cannot be thoroughly cleansed. Treat skin cuts and wounds with standard first aid practices such as cleansing, disinfecting and covering to prevent wound infection and contamination before continuing work. Obtain medical help for persistent irritation. Material accidentally implanted or

lodged under the skin must be removed.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids

occasionally. Get medical attention if symptoms persist.

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to

an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

May cause allergic respiratory reaction. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Prolonged exposure may cause chronic effects.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment of Chronic Beryllium Disease: There is no known treatment which will cure chronic beryllium disease. Prednisone or other corticosteroids are the most specific treatment currently available. They are directed at suppressing the immunological reaction and can be effective in diminishing signs and symptoms of chronic beryllium disease. In cases where steroid therapy has had only partial or minimal effectiveness, other immunosuppressive agents, such as cyclophosphamide, cyclosporine, or methotrexate, have been used. In view of the potential side effects of all the immunosuppressive medications, including steroids such as prednisone, they should be used only under the direct care of a physician. Other treatment, such as oxygen, inhaled steroids or bronchodilators, may be prescribed by some physicians and can be effective in selected cases. In general, treatment is reserved for cases with significant symptoms and/or significant loss of lung function. The decision about when and with what medication to treat is a judgment situation for individual physicians.

In their 2014 official statement on the Diagnosis and Management of Beryllium Sensitivity and Chronic Beryllium Disease, the American Thoracic Society states that "it seems prudent for workers with BeS to avoid all future occupational exposure to beryllium."

The effects of continued low exposure to beryllium are unknown for individuals who are sensitized to beryllium or who have a diagnosis of chronic beryllium disease. It is generally recommended that persons who are sensitized to beryllium or who have CBD terminate their occupational exposure to beryllium.

SECTION 5: Firefighting measures

General fire hazards

Flammable solid.

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry Sand, Graphite Powder, Dry Sodium Chloride Based Extinguishers. DO NOT use water if avoidable.

Unsuitable extinguishing media

Do not use water to extinguish fires around operations involving molten metal due to the potential for steam explosions.

5.2. Special hazards arising from the substance or mixture

Hazardous dust or fumes containing beryllium may be released during a fire.

5.3. Advice for firefighters

Special protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Special firefighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Pressure-demand self-contained breathing apparatus must be worn by firefighters or any other

persons potentially exposed to the particulate released during or after a fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not breathe dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Wear appropriate personal protective equipment.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Do not breathe dust. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Clean up in accordance with all applicable regulations.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimise dust generation and accumulation. Do not breathe dust/fume. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. When using, do not eat, drink or smoke. Wash thoroughly after handling.

Material name: AlBeMet® Powder SDS GREAT BRITAIN

7.2. Conditions for safe storage, including any incompatibilities

Keep locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tonnes;

Upper-tier requirements = 500 tonnes)

Avoid contact with acids and alkalies. Avoid contact with oxidising agents.

7.3. Specific end use(s) Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1 Material Value Tyne

Material	туре	Value	
AlBeMet® Powder	TWA	0.002 mg/m3	
Components	Туре	Value	Form
Aluminium (CAS 7429-90-5)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Beryllium (CAS 7440-41-7)	TWA	0.002 mg/m3	
ological limit values	No biological exposure limits noted f	or the ingredient(s).	

Bio

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

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Material name: AlBeMet® Powder

Appropriate engineering controls

VENTILATION: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Ensure adequate ventilation, especially in confined areas.

Whenever possible, the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne particulate. Where utilized, exhaust inlets to the ventilation system must be positioned as close as possible to the source of airborne generation. Avoid disruption of the airflow in the area of a local exhaust inlet by equipment such as a man-cooling fan. Check ventilation equipment regularly to ensure it is functioning properly. Provide training on the use and operation of ventilation to all users. Use qualified professionals to design and install ventilation systems.

WET METHODS: Machining operations are usually performed under a liquid lubricant/coolant flood which assists in reducing airborne particulate. However, the cycling through of machine coolant containing finely divided particulate in suspension can result in the concentration building to a point where the particulate may become airborne during use. Certain processes such as sanding and grinding may require complete hooded containment and local exhaust ventilation. Prevent coolant from splashing onto floor areas, external structures or operators' clothing. Utilize a coolant filtering system to remove particulate from the coolant.

WORK PRACTICES: Develop work practices and procedures that prevent particulate from coming in contact with worker skin, hair, or personal clothing. If work practices and/or procedures are ineffective in controlling airborne exposure or visual particulate from deposition on skin, hair, or clothing, provide appropriate cleaning/washing facilities. Procedures should be written that clearly communicate the facility's requirements for protective clothing and personal hygiene. These clothing and personal hygiene requirements help keep particulate from being spread to non-production areas or from being taken home by the worker. Never use compressed air to clean work clothing or other surfaces.

Fabrication processes may leave a residue of particulate on the surface of parts, products or equipment that could result in employee exposure during subsequent material handling activities. As necessary, clean loose particulate from parts between processing steps. As a standard hygiene practice, wash hands before eating or smoking.

HOUSEKEEPING: Use vacuum and wet cleaning methods for particulate removal from surfaces. Be certain to de-energize electrical systems, as necessary, before beginning wet cleaning. Use vacuum cleaners with high efficiency particulate air (HEPA). Do not use compressed air, brooms, or conventional vacuum cleaners to remove particulate from surfaces as this activity can result in elevated exposures to airborne particulate. Follow the manufacturer's instructions when performing maintenance on HEPA filtered vacuums used to clean hazardous materials.

Individual protection measures, such as personal protective equipment

General information

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear approved safety glasses, goggles, face shield and/or welder's helmet when risk of eye injury is present, particularly during operations that generate dust, mist or fume.

Skin protection

- Hand protection

Wear gloves to prevent contact with particulate or solutions. Wear gloves to prevent metal cuts and skin abrasions during handling.

- Other

Protective overgarments or work clothing must be worn by persons who may become contaminated with particulate during activities. Skin contact with this material may cause, in some sensitive individuals, an allergic dermal response. Particulate that becomes lodged under the skin has the potential to induce sensitization and skin lesions.

Respiratory protection

When airborne exposures exceed or have the potential to exceed the occupational exposure limits, approved respirators must be used as specified by an Industrial Hygienist or other qualified professional. Respirator users must be medically evaluated to determine if they are physically capable of wearing a respirator. Quantitative and/or qualitative fit testing and respirator training must be satisfactorily completed by all personnel prior to respirator use. Users of tight fitting respirators must be clean shaven on those areas of the face where the respirator seal contacts the face. Use pressure-demand airline respirators when performing jobs with high potential exposures such as changing filters in a baghouse air cleaning device.

Thermal hazards

Not applicable. Wear appropriate thermal protective clothing, when necessary.

Hygiene measuresObserve any medical surveillance requirements. When using do not smoke. Keep away from food

and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid.

Form Solid. Various shapes.

Colour Grey.
Odour None.

Odour threshold Not applicable. **pH** Not applicable.

Melting point/freezing point
Initial boiling point and

boiling range

660 °C (1220 °F) estimated 2327 °C (4220.6 °F) estimated

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Flammable solid.

Upper/lower flammability or explosive limits

Explosive limit - lower (

%)

Not applicable.

Not applicable. Not applicable.

Explosive limit – upper

(%)

Vapour pressure 3.29 hPa estimated
Vapour density Not applicable.
Relative density Not applicable.

Solubility(ies)

Solubility (water) Not applicable.

Partition coefficient Not applicable.

Partition coefficient (n-octanol/water)
Auto-ignition temperature

Auto-ignition temperatureNot applicable.Decomposition temperatureNot applicable.ViscosityNot applicable.

ViscosityNot applicableExplosive propertiesNot explosive.Oxidising propertiesNot oxidising.

9.2. Other information

Density 2.33 g/cm3 estimated

Partition coefficient

10.4. Conditions to avoid

(oil/water)

Not applicable.

Specific gravity 2.33 estimated

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.10.3. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

Heat, flames and sparks. Contact with incompatible materials. Avoid dust formation. Contact with

acids. Contact with alkalis.

10.5. Incompatible materials Acids. Strong oxidising agents. Caustics. Chlorinated hydrocarbons. Strong acids, alkalies and

oxidizing agents.

10.6. Hazardous

decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Fatal if inhaled.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion Toxic if swallowed.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred **Symptoms**

> vision. May cause respiratory irritation. Coughing. Discomfort in the chest. Shortness of breath. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash

11.1. Information on toxicological effects

Acute toxicity Fatal if inhaled. Toxic if swallowed.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Beryllium (CAS 7440-41-7) 1 Carcinogenic to humans.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity

- single exposure

May cause respiratory irritation.

Specific target organ toxicity

- repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Product	Species	lest Results	
AlBeMet® Powder			

Aquatic

Acute

LC50 Fish Fish 0.325 mg/l, 96 hours estimated

Components Test Results Species

Aluminium (CAS 7429-90-5)

Aquatic

Acute

Fish LC50 Grass carp, white amur 0.21 - 0.31 mg/l, 96 hours

(Ctenopharyngodon idella)

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative

potential

No data available.

Partition coefficient Not available.

n-octanol/water (log Kow)

Material name: AlBeMet® Powder SDS GREAT BRITAIN 8 / 12

^{*} Estimates for product may be based on additional component data not shown.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and

vPvB assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC)

No 1907/2006, Annex XIII.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company. Waste codes should be assigned by the user based on the application for which

the product was used.

Disposal Material should be recycled if possible. Disposal recommendations are based on material as

supplied. Disposal must be in accordance with current applicable laws and regulations, and material methods/information

characteristics at time of disposal.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1567

Beryllium powder 14.2. UN proper shipping

14.3. Transport hazard class(es)

Class 6.1 **Subsidiary risk** 4.1 Label(s) 6.1 +4.1

Hazard No. (ADR) 64 **Tunnel restriction** D/E

code

14.4. Packing group ΙΙ 14.5. Environmental No.

hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN1567

14.2. UN proper shipping Beryllium powder

name

14.3. Transport hazard class(es)

Class 6.1 **Subsidiary risk** 4 1 6.1 + 4.1Label(s) 14.4. Packing group ΙΙ 14.5. Environmental No.

hazards

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

14.1. UN number UN1567

14.2. UN proper shipping Beryllium powder

name

hazards

14.3. Transport hazard class(es)

Class 6.1 Subsidiary risk 4.1 Label(s) 6.1 + 4.114.4. Packing group II 14.5. Environmental No.

Material name: AlBeMet® Powder

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14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN1567

Beryllium powder 14.2. UN proper shipping

14.3. Transport hazard class(es)

6.1 Class 4.1 **Subsidiary risk** 14.4. Packing group ΙΙ 14.5. Environmental No.

hazards

ERG Code 6F

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

Other information

Passenger and cargo Allowed with restrictions. aircraft

Allowed with restrictions. Cargo aircraft only

IMDG

14.1. UN number UN1567

14.2. UN proper shipping BERYLLIUM POWDER

name

14.3. Transport hazard class(es)

6.1 **Subsidiary risk** 4.1 14.4. Packing group Η 14.5. Environmental hazards Marine pollutant **EmS** F-G, S-G

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

14.7. Transport in bulk Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

ADN; ADR; IATA; IMDG; RID



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture **Retained direct EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Aluminium (CAS 7429-90-5)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

Beryllium (CAS 7440-41-7)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758. Follow national regulation for work with chemical agents.

Follow the requirements of the Control of Substances Hazardous to Health Regulations 2002 [SI 2002/2677], as amended, when using this material. Follow specific measures on the prevention and control of exposure to carcinogens and mutagens in accordance with the Control of Substances Hazardous to Health Regulations 2002 [SI 2002/2677], as amended. New or expectant mothers should not work with this product if there is a risk due to exposure, in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended.

15.2. Chemical safety assessment

Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

Not available.

IMDG: International Maritime Dangerous Goods.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculatior methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H228 Flammable solid.

H250 Catches fire spontaneously if exposed to air.

H261 In contact with water releases flammable gases.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H350i May cause cancer by inhalation.

H372 Causes damage to organs (respiratory system) through prolonged or repeated exposure.

Composition / Information on Ingredients: Ingredient Classification

GHS: Qualifiers

Training information Disclaimer

Revision information

Follow training instructions when handling this material.

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Material name: AlBeMet® Powder SDS GREAT BRITAIN