

Date of issue: 14.04.2014 Replaces Data Sheet of: 09.10.2008

"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier:** n.ap.
Commercial Product Names: AL 105, AL 107, AL 111, AL 112
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against:** None.
Use: Brazing alloy (Aluminium)
Chemical nature of the preparation:
 Metal alloy according to DIN EN ISO 17672:2010 – 2011 / EN ISO 17672:2010 (Germany)
- 1.3 **Details of the supplier of the safety data sheet:**
Address: Manufacturer, supplier:
 H.P.Wirth GmbH, Weberstr. 46, 75239 Eisingen, Germany
 Telephone: + 497232 80978 12, Telefax: + 497232 80978 15
Contact person: Mr. Jan Wirth, eMail: j.wirth@hpwirth.com
Responsible:
 CHEMCO123® – Chemical Consultancy, graduate chemist, R. Fechner, ☎ + 49 5254 9575 05
 eMail: info@chemco123.de
- 1.4 **Emergency telephone number:**
 Information Centre Specialising in Symptoms of Poisoning: +49 30 19 240 (with costs)
 Emergency - Telephone of Company / Undertaking + 497232 80978 12

*** SECTION 2: Hazards identification**

- 2.1 **Classification of the substance or mixture:** :
Classification according to Directive 1999/45 and Regulation (EC) 1272/2008:
 None.
- 2.2 **Label elements:**
Label elements according to Directive 1999/45 and Regulation (EC) 1272/2008:
 None.
- 2.3 **Other hazards:**
For Humans:
 Vapour during processing may be irritating to the respiratory tract and to the eyes.
For the Environment:
 None.
 Persistent, bioaccumulative and toxic substances (PBT-substances): None.
 Very persistent and very bioaccumulative substances (vPvB-substances): None.

*** SECTION 3: Composition/information on ingredients****3.1 Dangerous Ingredients:**

CAS - No.	Index - No.	EC - No.	Material	m% - range	Symbol / pictogram (e)	R - / H - phrases
7429-90-5	None	231-072-3	aluminium	85,5 - 87,5 %	n.ap.	n.ap.
7440-21-3	not applicable	231-130-8	silicium	4,5 - 13 %	n.ap.	n.ap.
7439-89-6	None	231-096-4	iron	0,60 – 0,87 %	n.ap.	n.ap.
None.	None	231-159-6	copper	0,3 %	n.ap.	n.ap.
7440-66-6	None	231-175-3	zinc	10 – 12 %	n.ap.	n.ap.
7439-96-5	None	231-105-1	manganese	0,05 - 0,15 %	n.ap.	n.ap.
7440-32-6	Keine.	231-142-3	titananium	0,15 – 0,2	n.ap.	n.ap.
7439-95-4	012-001-00-3	231-104-6	magnesium	005 – 0,2 %	n.ap.	n.ap.

*** SECTION 4: First aid measures**

- 4.1 **Description of first aid measures:**
General advice:
 Show this safety data sheet to the doctor in attendance.
Inhalation:
 No hazards resulting from the material as supplied.

Tradename: AL 105, AL 107, AL 111, AL 112

Manufacturer / Supplier: H.P.Wirth GmbH, Weberstr. 46, 75239 Eisingen, Germany

Telephone: + 497232 80978 12, **Date of issue:** 14.04.2014 **Replaces Data Sheet of:** 09.10.2008

Skin Contact:

Wash off with soap and water.

Eye Contact:

No hazards resulting from the material as supplied.

Ingestion:

No hazards resulting from the material as supplied.

4.2 **Most important symptoms and effects, both acute and delayed:**

None.

4.3 **Indication of any immediate medical attention and special treatment needed:**

None.

*** SECTION 5: Firefighting measures**

5.1 **Extinguishing media:**

Suitable Extinguishing Media: The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: None.

5.2 **Special hazards arising from the substance or mixture:**

In the event of fire the following can be released: Vapours and decomposition products with irritating effects.

5.3 **Advice for firefighters:** None.

Special Protective Equipment:

None. Wear positive pressure self-contained breathing apparatus.

Wear full protective clothing.

*** SECTION 6: Accidental release measures**

6.1 **Personal precautions, protective equipment and emergency procedures:**

No hazards resulting from the material as supplied.

6.1.1 *For non-emergency personnel:*

Use personal protective equipment.

6.1.2 *For emergency responders:*

Use personal protective equipment.

6.2 **Environmental Precautions:**

No special environmental precautions required. Take up mechanically and collect in suitable container for disposal.

6.3 **Methods and material for containment and cleaning up:**

6.3.1 *Methods and material for containment:*

Take up mechanically and collect in suitable container for disposal.

6.3.2 *Methods and material for cleaning up:*

Take up mechanically

6.3.3 **Inappropriate containment or clean-up techniques:**

None.

6.4 **Reference to other sections:**

See Section 8 / 13.

*** SECTION 7: Handling and storage**

7.1 **Precautions for safe handling:**

7.1.1 **Recommendations shall be specified to:**

No hazards resulting from the material as supplied.

During processing: Provide sufficient air exchange and/or exhaust in work rooms.

7.1.2 **Advice on general occupational hygiene shall be provided:**

Do not breathe vapour. When using do not eat or drink.

7.2 **Conditions for safe storage, including any incompatibilities:**

No special storage conditions required.

Precautions in Case of Fire and Explosion:

Normal measures for preventive fire protection.

7.3 **Specific end use(s):**

Brazing alloy (Aluminium).

Tradename: AL 105, AL 107, AL 111, AL 112

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Telephone: + 497232 80978 12, Date of issue: 14.04.2014 Replaces Data Sheet of: 09.10.2008

*** SECTION 8: Exposure controls/personal protection**8.1 **Control parameters:****Exposure Limits:****CAS / Material****Limit Value according to TRGS 900/ EC Guidline 2000/39:**

7439-96-5 / manganese and und the inorganic compounds	AGW: 0,5 E (respirable fraction), Y, MAK (DFG) : 0,02 mg/m ³ (Alveole passing fraction); 0,2 mg/m ³ respirable fraction; 8(II), BAR: : 15 µg/l, B, c, b (Germany, TRGS 903)
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8.2 **Exposure controls:**

Ingredients named in Section 8.1.

8.2.1 **Appropriate engineering controls:**

During processing: Provide sufficient air exchange and/or exhaust in work rooms.

8.2.2 **Personal Protective Equipment****Respiratory Protection:** No hazards resulting from the material as supplied.

During processing: In case of insufficient ventilation, wear suitable respiratory equipment. respirator with filter P2.

Hand Protection: No hazards resulting from the material as supplied.*Long Term – Exposure / Short Term - Exposure:*

During processing: Leather gloves

Eye Protection: No hazards resulting from the material as supplied.

During processing: Safety glasses

Skin Protection: Not required**Further Information:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.**Thermal hazards:** None.8.2.3 **Environmental exposure controls:** None.*** SECTION 9: Physical and chemical properties**9.1 **Information on basic physical and chemical properties:****Appearance:** liquid**Colour:** silver**Odour:** None**Odour threshold:** n.ap.**Safety Relevant Data**

pH-value, undiluted: not applicable

Boiling point / Boiling - range (°C): not applicable

Melting point / Melting range (°C): 575 - 585

Flash point (°C): not applicable

Flammability: not applicable

Ignition temperature (°C): not applicable

Autoflammability (EC A16): not applicable

Oxidising properties: not applicable

Explosion hazard: not applicable

Explosion limits (Vol.%) lower: not applicable, upper: not applicable

Vapour pressure: not applicable

Density (g/ml): ~ 9

Solubility (in Water): insoluble

Partition coefficient, n-Octanol/Water: no data available

Viscosity: no data available

Solvent content (m %): not applicable

Fat solubility:

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9.2	Other information:	
	Thermal decomposition (°C):	no data available
	Vapour density (Air = 1):	no data available
	Evaporation rate:	no data available

* SECTION 10: Stability and reactivity

10.1	Reactivity:	No hazards resulting from the material as supplied.
10.2	Chemical stability:	Stable at normal conditions
10.3	Possibility of hazardous reactions:	None.
10.4	Conditions to avoid:	None.
10.5	Incompatible materials:	Keep away from oxidising agents, strongly alkaline and strongly acid materials.
10.6	Hazardous decomposition :	None.

* SECTION 11: Toxicological information

11.1	Information on toxicological effects	
11.1.1	Mixtures - No hazards resulting from the material as supplied.	
	Acute toxicity	
	Inhalation, LC ₅₀ rat, (mg/l/4h):	None.
	Ingestion, LD ₅₀ rat, (mg/kg):	None.
	Skin - contact, LD ₅₀ rat, (mg/kg):	None.
	Irritation (eye):	None.
	Corrosivity:	None.
	Sensitisation:	None.
	Repeated dose toxicity:	no data available
	Carcinogenicity:	no data available
	Mutagenicity:	no data available
	Toxicity for reproduction	None..
11.1.2	Substances	
	Acute Health Effects of Manganese:	
	Ingestion, LD ₅₀ rat, (g/kg):	9
	Skin - contact, LD ₅₀ rabbit, (mg/kg):	no data available
	Inhalation, LC ₅₀ rat, (mg / m ³ , 30 min):	no data available
	Skin corrosion/irritation:	None
	Serious eye damage/irritation:	None
	Respiratory or skin sensitisation	None.
	Germ cell mutagenicity:	no data available
	Carcinogenicity:	no data available
	Reproductive toxicity:	There is no reason to fear a risk to humans when the exposure limit is adhered to.
	STOT-single exposure:	no data available
	STOT-repeated exposure:	no data available
	Aspiration hazard:	None.

* SECTION 12: Ecological information

12.1	Ecotoxic Effects, Aquatic Toxicity:	Not water endangering
12.2	Persistence and degradability:	May be separated mechanically in waste water plants.
12.3	Bioaccumulative potential:	Does not bioaccumulate.

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12.4 **Mobility in sol:**

Does not bioaccumulate.

12.5 **Results of PBT and vPvB assessment:**

Persistent, bioaccumulative and toxic substances (PBT-substances): None.

Very persistent and very bioaccumulative substances (vPvB-substances): None.

12.6 **Other adverse effects**

*** SECTION 13: Disposal considerations**

13.1 **Waste treatment methods:**

Methods of waste treatment of both the substance or mixture and any contaminated packaging

Recommendation: R3 / D1

Waste - Code - No.: 17 04 - metals (including their alloys). 17 04 07 – blended metals

*** SECTION 14: Transport information**

Transportation by Road or Railway according to ADR/GGVS and RID/GGVE

Transportation by Vessels according to IMDG/GGVSee

Transportation by Aeroplane according to IATA-DGR/ICAO-TI

Remarks: Not dangerous goods

*** SECTION 15: Regulatory information**

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

TRGS 528

15.2 **Chemical safety assessment:** None.

*** SECTION 16: Other information**

R phrases / H phrases:

None.

Further information to work out the Data sheet:

Data of the producer.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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