



## 5. FIRE-FIGHTING MEASURING

- 5.1 **Suitable fire extinguishing agents:**  
Co-ordinate with environment.
- 5.2 **Special endangerment by the material or the product, its combustion products or developing gases:**  
Not inflammable.

## 6. MEASURES TO BE TAKEN IN CASE OF UNINTENTIONAL RELEASE

- 6.1 **Personal precautionary measures:**  
Slip hazard by run out or buried product.
- 6.2 **Environmental protection measures:**  
Take up the run out product. Supply the product remainders for disposal.
- 6.3 **Cleaning methods:**  
Large quantities are absorbed (syringe) or up-turned. Remove any product residues by soap solution.
- 6.4 **Additional references:**

## 7. HANDLING AND STORAGE

- 7.1 **Handling**
  - 7.1.1 **References to safe handling:**  
Avoid bury and unnecessary contact.
- 7.2 **Storage**  
Not in glass containers, With solidifying the liquid an enlargement of the volume develops around approx. 0,3%. Plastics (PE, PP) are well suitable as container material

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTIVE EQUIPMENT

- 8.3 **Individual protective equipment**
  - 8.3.1 **Respiratory protection:**  
In occurring oxide smoke use filter P3.
  - 8.3.2 **Hand protection:**  
With full contact:  
Glove material: Nitril India rubber  
Layer strength: 0,11 mm  
Break-through time: > 480 Min.
  - 8.3.3 **Eye protection:**  
Wear protective goggles in case of potential contact with the eyes.
  - 8.3.4 **Body protection:**  
Wear suitable work clothing if there is a risk of splashing.
  - 8.3.5 **Data to the industrial hygiene:**  
Switch contaminated clothes. Wash your hands after work with the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Appearance

Form: Liquid metal alloy  
Color: silver  
Odor: odorless

### 9.2 Safety-relevant data

Art	Wert
pH-value (20 °C)	not applicable
Melting point (°C)	8°C
Boiling point (°C)	> 1350 °C
Inflammability (°C)	not applicable
flash point (°C)	not applicable
Vapour pressure (°C)	<10-8Torr bei 500 °C
Density (g/cm <sup>3</sup> )	6,85g/cm <sup>3</sup>
bulk density (kg/m <sup>3</sup> )	not applicable
Solubility in water ( 20°C in g/l)	insoluble
Solubility in organic solvents	insoluble
dynamic viscosity (mPa s/20° C)	0,0018
lower explosion limit	not applicable
upper explosion limit	not applicable

## 10. STABILITY AND REACTIVITY

### 10.1 Conditions to be avoided:

With aluminum and with following addition of water exothermically.

### 10.2 Substances to be avoided:

Halogeneous one, hydrogen peroxide/hydrogen chloride, chlorine, bromine, aluminum

### 10.3 Other information:

The product has an alloying effect on metal surfaces, especially light metals. If necessary, the product should be tested under the specific conditions to determine any reactions with materials and chemical substances.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Toxicological examinations

#### 11.1 Acute toxicity:

The metal alloy has not been tested, the single components of the alloy are below the limits of acute toxicity even if a full resorption is assumed.

#### 11.2 Effects at humans:

So far as the generally applicable regulations of industrial hygiene were adhered to, any harmful effect on the health has not become known.

<u>After swallowing:</u>	Leaves the body on natural way.
<u>After skin contact:</u>	With frequent skin contact skin defatting is possible.
<u>After inhalation:</u>	Due to the very low steam pressure not applicably.
<u>After eye contact:</u>	Splashes in the eyes may cause irritations.

## 11.1.3 Further toxicological references:

Dangerous characteristics are not to be excluded, but with adequate use not probably.

## 11.3 General remarks:

The product is to be handled with the caution usual with chemicals.

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecological toxicity:

The product is not miscible with water and shows a tendency toward sedimentation. Quantitative data for the ecological effect of this product are not present.

### 12.2 Overall evaluation:

In the case of appropriate handling and use no ecological problems are to be expected.

## 13. DISPOSAL INFORMATION

### 13.1 Disposal:

Intended use or recycling is to be preferred to the disposal. The product should be disposed according to the locally valid laws on waste disposal and (the competent authorities are responsible to give the necessary information).

### 13.2 Additional references:

Cleaning agent: diluted, warmed up hydrochloric acid. Soap/water solution for surfaces.

## 14. TRANSPORT INFORMATION

### 14.1 Transportation by road/rail (ADR/RID/GGVSE):

Class: 8  
Danger note: 8  
UN-Nr.: UN 1760  
Group of packing: III  
Correct technical name: corrosive liquid substance, n.o.s. (Gallium solution)

### 14.2 Transportation by sea/marine (IMDG-Code/GGVSee):

Class: 8  
UN-Nr.: 1760  
Group of packing: III  
EmS: F-A, S-B  
Correct technical name: corrosive liquid substance, n.o.s. (Gallium solution)  
Sea pollutant (Marine Pollutant): No sea pollutant

### 14.3 Transportation by air transport (ICAO-IATA/DGR):

Class: 8  
UN-Nr.: 1760  
Group of packing: III  
Correct technical name: corrosive liquid substance, n.o.s. (Gallium solution)

### 14.4 Additional references:

The transportation regulations are quoted after the international adjustments and in the form, how they are used in Germany. Possible deviations in other countries are not considered.

## 15. REGULATORY INFORMATION

The alloy is not dangerous working material in the sense of the guideline 67/548/EWG.

The product is compliant with the guideline 2002/95/EG (RoHS) and does not exceed the predetermined conditions of the guideline 2005/618/EG.

The product is equal to the terms and conditions of the ElektroG- particularly with regard to indexed commodity substance prohibition at the chapter 2,\$5 (1).

**National regulations:**

**Water endangerment class:**      nwg (not hazardous to waters)

## 16. OTHER DATA

Coolaboratory doesn't assume any responsibility for the incorrect usage of this product and the resulting damages and consequences.

The data rely on the today's conditions of our knowledge and serve to describe the product regarding safety precautions which can be met. They do not represent a warranty of the product described by characteristics.