



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 18.11.2010

Version: 1

Revision: 18.11.2010

## \* 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** 4910-28G Tip Tinner
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** soldering
- **Details of the supplier of the safety data sheet**

· **Manufacturer:**  
MG Chemicals  
1210 Corporate Drive,  
Burlington, Ontario L7L 5R6  
CANADA

PHONE: +1 905-331-1396  
E-MAIL: support@mgchemicals.com  
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FAX +1 905-340-0772

· **Distributor:**  
MG Chemicals UK Limited  
DMC, Ensor House, Ensor Way,  
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PHONE: +44 1663 362888  
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sales@mgchemicals.com

· **Information department:**  
E-MAIL (Competent Person): sds@mgchemicals.com

· For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents  
UK: Call CHEMTREC: +(44)-870-8200418 or international: +(1) 703-527-3887

For updates on this SDS please download from [www.mgchemicals.com](http://www.mgchemicals.com)

## \* 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable
- **Information concerning particular hazards for human and environment:**  
According to current European laws and regulations the product is not dangerous or toxic material (based on the available data).
- **Classification system:**  
The classification was made according to the latest editions of the EC-lists and expanded using company data and specialized literature.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard-determining components of labelling:** Void
- **Hazard statements**  
Safety data sheet available on request.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

|                       |        |
|-----------------------|--------|
| CAS: 7440-31-5    tin | 92-97% |
| EINECS: 231-141-8     |        |

|                          |      |
|--------------------------|------|
| CAS: 7440-22-4    silver | 2-4% |
| EINECS: 231-131-3        |      |

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:**  
Inhalation of product is unlikely.  
In case of complaints possibly caused by vapours provide fresh air.  
If symptoms persist, consult a doctor.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Generally the product does not irritate the skin.  
MOLTEN PRODUCT: Immediately cool skin burns with water and cold packs for at least 15 minutes. Do not put ice directly on the skin. Do not attempt to remove solidified product from the skin, as damage may result. Get immediate medical attention.
- **After eye contact:**  
Eye contact is unlikely. If particles get into the eyes, remove as customary for foreign bodies.  
MOLTEN PRODUCT: Cool burns with plenty of low-pressure water. Get immediate medical attention.
- **After swallowing:**  
Drink plenty of water, but never give anything to an unconscious person.  
Do not induce vomiting.  
Call a doctor immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
After inhalation of high vapour concentration levels:  
Headache  
Nausea  
After the uptake of large quantities:  
Insomnia  
weakness  
Abdominal pain  
Constipation
- **Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Alcohol resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Extinguishing powder  
Use fire fighting measures that suit the environment.

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- **Special hazards arising from the substance or mixture**

Dangerous decomposition products see chapter 10: stability and reactivity

- **Advice for firefighters**

- **Protective equipment:**

Do not inhale combustion vapours.

Wear self-contained respiratory protective device.

- **Additional information:**

Heating leads to pressure increase entailing danger of bursting and explosion. Immediately cool neighbouring packages and containers with sprayed water and, if possible, remove them out of the danger zone

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid contact with eyes and skin.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Make sure to recycle or dispose of in suitable receptacles.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections** No dangerous substances are released.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Avoid contact with eyes and skin.  
Avoid inhalation of vapours formed by heated product.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store cool and dry in a well ventilated area.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from feed.
- **Further information about storage conditions:** None.
- **Storage class:** 11 Combustible solids

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:**  
Install appropriate mechanical ventilation.  
No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**

### 7440-31-5 tin

OEL (Ireland)

Short-term value: 4 mg/m<sup>3</sup>

Long-term value: 2 mg/m<sup>3</sup>

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**7440-22-4 silver**IOELV (European Union) Long-term value: 0.1 mg/m<sup>3</sup>WEL (Great Britain) Long-term value: 0.1 mg/m<sup>3</sup>OEL (Ireland) Long-term value: 0.1 mg/m<sup>3</sup>

IOELV

• **Additional information:** The lists that were valid during the creation were used as basis.

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Use skin protection cream for skin protection.

• **Breathing equipment:** Not necessary if you follow the instructions for use.

• **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **Material of gloves:**

For undissolved solid substances following materials may be suitable:

Nitrile rubber (NBR), Butyl rubber (BR), Fluorocarbon rubber (FKM) and Polychloroprene rubber (CR).

The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material:**

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:** Safety glasses

• **Body protection:** Light weight protective clothing

## 9 Physical and chemical properties

• **Information on basic physical and chemical properties**

• **General Information:**

• **Appearance:**

Form: Solid.

Colour: Silver metallic

• **Odour:** Odourless

• **Change in condition:**

Melting point/Melting range: 1380°C

Boiling point/Boiling range: not determined

• **Flash point:** not applicable

• **Self ignition temperature:** Product is not self-igniting.

• **Danger of explosion:** Product does not present an explosion hazard.

• **Density:** 5.9-7.0 g/cm<sup>3</sup>

• **Solubility in / Miscibility with**

Water: Partly soluble

## 10 Stability and reactivity

• **Reactivity**

• **Chemical stability**

• **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

• **Possibility of hazardous reactions** No dangerous reactions known.

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- **Incompatible materials:**

Strong acids

Oxidants

- **Hazardous decomposition products:**

In case of fire or at high temperatures the formation of following decomposition products is possible.

Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**7440-22-4 silver**

Oral LOAEL 0.014 mg/kg -bw/day (men)

Dermal LD<sub>50</sub> > 5000 mg/kg (mouse)

- **Primary irritant effect:**

- **on the skin:** No irritating effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** Presently there are no ecotoxicological values available.

- **Additional ecological information:**

- **General notes:**

Generally not hazardous for water.

According to appendix 4 of VwVwS dated 27.7.2005 (German regulation)

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:** Disposal according to instructions of local authorities.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

No hazardous good according to the regulation.

- **Maritime transport IMDG:**

- **IMDG Class:** -

No hazardous good according to the regulation.

- **Marine pollutant:** No

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- **Air transport ICAO-TI and IATA-DGR:**
  - **ICAO/IATA Class:** -  
No hazardous good according to the regulation.
  - **UN "Model Regulation":** -
  - **Special precautions for user** Not applicable.
- 

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **National regulations**
  - **Technical guidance (air):**
  - **Class Share in %:**
  - III 96.5
  - **Water hazard class:** Generally not hazardous for water.
  - **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
- 

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for amendments:**  
Change of trade name  
EC Regulation 453/2010
  - **Replaces version dated:** 19.11.2009
  - **Department issuing MSDS:**  
KFT Chemieservice GmbH  
Im Leuschnerpark. 3 D-64347 Griesheim  
Postfach 1451 D-64345 Griesheim
- Phone: +49 6155 86829-0 Fax: +49 6155 86829-25  
Safety Data Sheet Service: +49 6155 86829-22
- **Contact:** Dr. Sonja Fischer
  - **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent
  - **Sources:** MSDS of the supplier
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