

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 08/29/2011

Reviewed on 08/29/2011

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

- **Product identifier**
- **Trade name:** FLITZ LIQUID METAL POLISH
- **Article number:** 1744-2
- **Application of the substance / the preparation**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

- **Information department:** Product safety department
- **Emergency telephone number:**



2 Composition/information on ingredients

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

- **Dangerous components:**

64742-47-8	Distillates (petroleum), hydrotreated light	10-25%
14464-46-1	cristobalite	≤ 2.5%

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 -  Harmful
 - Harmful: may cause lung damage if swallowed.
- **Information concerning particular hazards for human and environment:**
 - The product has to be labelled due to the calculation procedure of international guidelines.
- **Classification system:**
 - The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
 - The product has been classified and marked in accordance with directives on hazardous materials.
- **Code letter and hazard designation of product:**
 -  Harmful
- **Hazard-determining components of labelling:**
 - Distillates (petroleum), hydrotreated light
- **Risk phrases:**
 - Harmful: may cause lung damage if swallowed.
- **Safety phrases:**
 - Keep out of the reach of children.
 - Keep away from food, drink and animal feedingstuffs.

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If swallowed, seek medical advice immediately and show this container or label.
Dispose of this material and its container to hazardous or special waste collection point.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 1
Reactivity = 0

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

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· *Specific end use(s)* No further relevant information available.

8 Exposure controls/personal protection

· *Additional information about design of technical systems:* No further data; see item 7.· *Components with limit values that require monitoring at the workplace:*

14464-46-1 cristobalite

PEL ½ value from respirable dust formulae for Quartz

REL 0.05* mg/m³

*respirable dust; See Pocket Guide App. A

TLV 0.025* mg/m³

*as respirable fraction

· *Additional information:* The lists that were valid during the creation were used as basis.· *Personal protective equipment:*· *General protective and hygienic measures:*

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· *Breathing equipment:*

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· *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*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· *Eye protection:* Goggles recommended during refilling.

9 Physical and chemical properties

· *General Information*· *Appearance:*

Form: Fluid

Color: According to product specification

· *Odor:* Characteristic· *Odour threshold:* Not determined.· *pH-value:* Not determined.· *Change in condition*

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100°C (212 °F)

· *Flash point:* Not applicable.· *Flammability (solid, gaseous):* Not applicable.· *Ignition temperature:* 210°C (410 °F)

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· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	0.5 Vol %
Upper:	6.5 Vol %
· Vapor pressure at 20°C (68 °F):	23 hPa (17 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Segregation coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	16.5 %
Water:	52.6 %
Solids content:	30.9 %
· Other information	No further relevant information available.

* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

* 12 Ecological information

- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.

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- **Additional ecological information:**
- **General notes:**
*Water hazard class 1 (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*
- **Recommended cleansing agent:** *Water, if necessary with cleansing agents.*

14 Transport information

- | |
|--|
| <ul style="list-style-type: none"> · UN-Number · DOT, ADR, ADN, IMDG, IATA <i>Void</i> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA <i>Void</i> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class <i>Void</i> |
| <ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA <i>Void</i> |
| <ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: <i>No</i> |
| <ul style="list-style-type: none"> · Special precautions for user <i>Not applicable.</i> |
| <ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code <i>Not applicable.</i> |

15 Regulatory information

- **Sara**
- **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):**

1344-28-1	aluminium oxide
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- **TSCA (Toxic Substances Control Act) All ingredients are listed**
- **Proposition 65**
- **Chemicals known to cause cancer:**
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

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· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

14464-46-1 cristobalite I

· **NTP (National Toxicology Program)**

14464-46-1 cristobalite K

· **TLV (Threshold Limit Value established by ACGIH)**

1344-28-1 aluminium oxide A4

14464-46-1 cristobalite A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14464-46-1 cristobalite

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Harmful

· **Hazard-determining components of labelling:**

Distillates (petroleum), hydrotreated light

· **Risk phrases:**

Harmful: may cause lung damage if swallowed.

· **Safety phrases:**

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

If swallowed, seek medical advice immediately and show this container or label.

Dispose of this material and its container to hazardous or special waste collection point.

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.

· **Department issuing MSDS:** Product safety department

· **Contact:**

· * **Data compared to the previous version altered.**

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