

LEVER ARCH MECHANISMS

As the exclusive distributor of Lever arch mechanisms in Italy, Cavallini S.r.l. supplies this product exclusively within the Italian market.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name: Nickel-Plated Lever Arch Mechanism
Registration Number: Not available
Recommended Use: Stationery articles

2. HAZARDS IDENTIFICATION

2.1 Hazard Description

Not applicable.

2.2 Information Concerning Particular Hazards for Human Health and the Environment

The product does not require labelling in accordance with the calculation method set out in the EU Directives on the classification and labelling of substances and preparations (67/548/EEC, 1999/45/EC and 1907/2006/EC).

2.3 Classification System

The classification is based on the latest editions of EU Directives 67/548/EEC, 1999/45/EC and 1907/2006/EC, supplemented by company data and information from the literature.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical Characterisation

Description:

Mixture of the substances listed below with non-hazardous additions. For the meaning of the risk phrases, please refer to Section 16.

CAS	COMPONENTE CHIMICA	PESO
CAS: 7439-89-6 EINECS: 231-096-4	<i>Iron</i>	Remainder
CAS: 7440-02-0 EINECS: 231-111-4 EU Number: 028-002-00-7	<i>Nickel</i>	Max 1.00%
CAS: 7439-96-5 EINECS: 231-105-1	Manganese	Max 2.00%
CAS: 7440-44-0 EINECS: 231-153-3	Carbon	Max 1.00%
CAS: 7440-32-6 EINECS: 231-142-3	Titanium	Max 0.10%
CAS: 7429-90-5 EINECS: 231-072-3 EU Number: 013-001-00-6	<i>Aluminium powder (pyrophoric)</i>	Max 0.35%



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

CAS: 7704-34-9 EINECS: 231-722-6	Sulphur	Max 0.15%
CAS: 7723-14-0 EINECS: 231-768-7 EU Number:015-002-00-7	<i>Red phosphorus</i>	Max 0.15%
CAS: 7440-42-8 EINECS: 231-151-2	Boron	Max 0.02%
CAS: 7440-47-3 EINECS: 231-157-5	<i>Chromium</i>	Max 0.85%
CAS: 7440-50-8 EINECS: 231-159-6	<i>Copper</i>	Max 1.00%
CAS: 7727-37-9 EINECS: 231-783-9	<i>Nitrogen</i>	Max 0.07%
CAS: 7440-21-3 EINECS: 231-130-8	<i>Silicon</i>	Max 1.35%
CAS: 7440-03-1 EINECS: 231-113-5	<i>Niobium</i>	Max 0.10%
CAS: 7439-98-7	<i>Molybdenum</i>	Max 0.50%
CAS : 1314-62-1	<i>Vanadium</i>	Max 0.25%
CAS : 7440-70-2	<i>Calcium</i>	Max 0.005%
CAS: 32131-17-2	Nylon 6,6	Max 0.20%

Remark

Nickel (CAS 7440-02-0) – Synonyms: Nickel Electroplating

Nylon 6,6 (CAS 32131-17-2) – Synonyms: PA66

4. FIRST AID MEASURES

Inhalation: Move the affected person to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash immediately with soap and water. If irritation persists, seek medical attention.

Eye Contact: Rinse cautiously with running water for several minutes. If symptoms persist, seek medical attention.

Ingestion: Seek medical attention if symptoms persist.

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Carbon dioxide (CO₂), dry powder and water spray. For large fires, use water spray or alcohol-resistant foam.

Protective Equipment: Wear suitable respiratory protective equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate personal protective equipment. Keep unprotected persons away.

6.2 Environmental Precautions

Prevent the product from entering drains, surface water or groundwater.

6.3 Methods and Material for Containment and Cleaning Up

Collect mechanically

7. HANDLING AND STORAGE



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

7.1 Handling

- Store in a cool, dry place in tightly closed containers.
- Open and handle with care.
- Keep away from sources of ignition. No smoking.

7.2 Storage

- Store in a cool, dry place.
- Keep away from foodstuffs and oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Ingredients with occupational exposure limit values requiring monitoring at the workplace:

7440-44-0 carbon	
WEL (GB)	10*4**mg/m3 Inhale dust* respirable
7440-21-3 silicon	
PEL (USA)	15*5***mg/m3
REL (USA)	*total dust **respirable fraction
TLA (USA)	10*5** mg/m3
WEL (Great Britain)	*total dust **respirable fraction TLV withdrawn 10*4** mg/m3 *Inhalable dust **respirable dust
7439-96-5 manganese	
PEL (USA)	Short-term value: C5* ** mg/m3
REL (USA)	As Mn *and inorganic compounds **fume
TLV (USA)	Short-term value: 3* ** mg/m3 Long-term value: 1* ** mg/m3 As Mn *and inorganic compounds **fume 0.2* ** mg/m3 As Mn *and inorganic compounds **fume
7723-14-0 red phosphorus	
WEL (Great Britain)	Short-term value: 0.3 mg/m3 Long-term value: 0.1 mg/m3
7429-90-5 aluminium powder (pyrophoric)	
PEL (USA)	15*5** mg/m3
REL (USA)	Metal dust total dust*respirable fraction
TLV (USA)	10*5** mg/m3
WEL (Great Britain)	Metal dust total dust*respirable fraction 1* mg/m3 *as respirable fraction 10*4** mg/m3 *Inhalable dust **respirable dust
7727-37-9 nitrogen	
TLV (USA)	Simple asphyxiant
7440-47-3 chromium	
IOELV (EU)	2 mg/m3
PEL (USA)	as Cr
REL (USA)	1 mg/m3
TLV (USA)	0.5 mg/m3
WEL (GB)	0.5 mg/m3 0.5 mg/m3



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

7440-02-0 nickel	
PEL (USA)	1 mg/m ³
REL (USA)	0.015 mg/m ³
TLV (USA)	Elemental 1.51 mg/m ³
WEL (GB)	Elemental 0.5 mg/m ³ as Ni
7440-50-8 copper	
PEL (USA)	1*0.1**mg/m ³ as Cu*dusts and mist **fume
REL (USA)	1*0.1R**mg/m ³ as Cu*dusts and mist **fume
TLV (USA)	Short-term value: 0.1**mg/m ³ Long-term value: 1*0.2**mg/m ³
WEL (Great Britain)	*dusts and mists: **fume; as Cu Short-term value: 2**mg/m ³ Long-term value: 0.2*1**mg/m ³ * fume **dusts and mists(as Cu)

DNEL: Not available

PNEC: Not available

Additional information: The lists valid during the making were used as basis.

8.2 Personal Protective Equipment

General Protective and Hygienic Measures: The usual precautionary measures for handling chemicals should be observed.

Respiratory Protection: Not required.

Hand Protection: The glove material must be impermeable and resistant to the product, substance or mixture. Due to the absence of test data, no recommendation can be given regarding the glove material for the product, preparation or chemical mixture. The selection of glove material should take into account the breakthrough time, permeation rate and degradation.

Glove Material: The selection of suitable gloves depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. As the product is a preparation consisting of several substances, the resistance of the glove material cannot be calculated in advance and should therefore be verified prior to use.

Breakthrough Time of the Glove Material: The exact breakthrough time should be obtained from the protective glove manufacturer and must be observed.

Eye Protection: Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State: Solid

Colour: Silver-grey

Odour: Odourless

Melting/Boiling Point: Not available

Flammability: Not available

Auto-ignition Temperature: Not available

Boiling Point: Not available

Self-Ignition: The product is not self-igniting.

Explosion Hazard: The product does not present an explosion hazard.

Lower Explosion Limit: Not available

Upper Explosion Limit: Not available

Oxidising Properties: Not available

Vapour Pressure: Not available

Density: Not available



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

Relative Density: Not available
Vapour Density: Not available
Evaporation Rate: Not available
Solubility in / Miscibility with Water: Not available
pH Value: Not available
Partition Coefficient (n-octanol/water): Not available
Dynamic Viscosity: Not available

10. STABILITY AND REACTIVITY

Thermal Decomposition / Conditions to Avoid:
No decomposition if used in accordance with the specifications.
Hazardous Reactions:
No hazardous reactions are known.

Hazardous Decomposition Products:
No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

- Acute Toxicity

Valori LD/LC50 values relevant for classification:		
7439-89-6 iron		
Oral	LD50	30mg/kg (rat)
7440-21-3 silicon		
Oral	LD50	3160mg/kg (rat)
7439-96-5 manganese		
Oral	LD50	9000mg/kg (rat)
7704-34-9 sulphur, precipitated, sublimed or colloidal		
Oral	LD50	> 5000mg/kg (rat)
Dermal	LD50	> 2000mg/kg (rabbit)
7440-42-8 boron		
Oral	LD50	650mg/kg (rat)

Primary Irritant Effects:

- Skin: May cause irritation.
- Eyes: May cause irritation.
- Sensitisation: Sensitisation through skin contact is possible.

Additional Toxicological Information:

The product is not subject to classification according to the calculation method set out in the EU Directives (67/548/EEC, 1999/45/EC and 1907/2006/EC). When used and handled in accordance with the specifications, the product does not have any harmful effects based on our experience and the information available to us.

- Toxicokinetics, Metabolism and Distribution: Not available.
- Acute Effects (Acute Toxicity, Irritation and Corrosivity): Not available.
- Repeated Dose Toxicity: Not available.
- CMR Effects (Carcinogenicity, Mutagenicity and Reproductive Toxicity): Not available.

12. ECOLOGICAL INFORMATION

Information on Elimination (Persistence and Degradability): Not available.

Behaviour in Environmental Systems:

- Mobility and Bioaccumulation Potential: Not available.
- Ecotoxic Effects: Not available.
- Aquatic Toxicity: Not available.

General Notes: Water Hazard Class 2 (German Regulation) (self-assessment): Hazardous to water. Do not allow the product to enter groundwater, watercourses or the sewerage system. Drinking water may be endangered if even small quantities of the product penetrate the soil. Valutazioni PBT: non disponibili



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

13 DISPOSAL CONSIDERATION

Product

Recommendation: Small quantities may be disposed of together with household waste.

Uncleaned Packaging:

Recommendation: Disposal must be carried out in accordance with the applicable official regulations.

14 TRANSPORT INFORMATION

The product is not subject to ADR, IMDG or ICAO/IATA transport regulations.

- ADR/RID (Road/Rail Transport)
- ADR/RID Class: –
- Hazard Identification Number (Kemler Code): –
- UN Number: –
- Hazard Label: –
- Proper Shipping Name: –
- Limited Quantities (LQ): –
- Transport Category: –
- Tunnel Restriction Code: –
- IMDG (Sea Transport)
- IMDG Class: –
- UN Number: –
- Hazard Label: –
- Packing Group: –
- EMS Number: –
- Marine Pollutant: No
- Proper Shipping Name: –
- ICAO-TI / IATA-DGR (Air Transport)
- ICAO/IATA Class: –
- UN/ID Number: –
- Hazard Label: –
- Packing Group: –
- Proper Shipping Name: –

15 REGULATORY INFORMATION

SARA

- Section 355 (Extremely Hazardous Substances):
- 7723-14-0 — Red phosphorus
- Section 313 (Specific Toxic Chemical Listings):
- 7439-96-5 — Manganese
- 7440-02-0 — Nickel
- 7429-90-5 — Aluminium powder (pyrophoric)
- 7440-47-3 — Chromium
- 7723-14-0 — Red phosphorus
- 7440-50-8 — Copper

TSCA (Toxic Substances Control Act)

- 7439-89-6 — Iron
- 7439-96-5 — Manganese
- 7440-02-0 — Nickel
- 7440-44-0 — Carbon
- 7440-32-6 — Titanium
- 7429-90-5 — Aluminium powder (pyrophoric)
- 7440-47-3 — Chromium
- 7727-37-9 — Nitrogen
- 7440-21-3 — Silicon
- 7723-14-0 — Red phosphorus
- 7704-34-9 — Sulphur
- 7440-03-1 — Niobium
- 7440-42-8 — Boron



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

Proposition 65

Chemicals Known to Cause Cancer:
7440-02-0 — Nickel

Chemicals Known to Cause Reproductive Toxicity (Females):
None of the ingredients is listed.

Chemicals Known to Cause Reproductive Toxicity (Males):
None of the ingredients is listed.

Chemicals Known to Cause Developmental Toxicity:
None of the ingredients is listed.

Carcinogenicity Classifications

EPA (Environmental Protection Agency)

- 7439-96-5 — Manganese
- 7723-14-0 — Red phosphorus
- 7440-42-8 — Boron
- 7440-50-8 — Copper

IARC (International Agency for Research on Cancer)

- 7440-02-0 — Nickel
- 7440-47-3 — Chromium

NTP (National Toxicology Program)

- 7440-02-0 — Nickel

TLV (Threshold Limit Value Established by ACGIH)

- 7440-02-0 — Nickel
- 7440-47-3 — Chromium
- 7429-90-5 — Aluminium powder (pyrophoric)

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

- 7440-02-0 — Nickel

OSHA-Ca (Occupational Safety and Health Administration)

- None of the ingredients is listed.

Labelling in Accordance with EU Directives

Observe the general safety regulations for handling chemicals.

The product is not subject to classification in accordance with EU Directives 67/548/EEC, 1999/45/EC and 1907/2006/EC.

Hazard Symbol and Designation of Danger: Not available.

Special Labelling of Certain Preparations: Contains nickel. May cause an allergic reaction.

National Regulations

- Other Regulations, Restrictions and Prohibitive Regulations
- Candidate List of Substances of Very High Concern (SVHC) according to ECHA (20/06/2013): None of the ingredients is listed
- REACH Regulation, Annex XVII – Restrictions: None of the ingredients is listed
- REACH Regulation, Annex XIV – Authorisations: None of the ingredients is listed

16 OTHER INFORMATION

10 - Flammable



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified

- 11 – Highly Flammable
- 15 – Contact with water liberates extremely flammable gases
- 16 – Explosive when mixed with oxidising substances.
- 17 – Spontaneously flammable in air
- 22 – Harmful if swallowed
- 40 – Limited evidence of a carcinogenic effect
- 43 – May cause sensitisation by skin contact
- 48 – Danger of serious damage to health by prolonged exposure
- 52/53 – Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

The contents and format of this Safety Data Sheet comply with Regulation (EC) No. 1907/2006, Commission Directive 1999/45/EC, and Council Directive 67/548/EEC.

DISCLAIMER

The information contained in this MSDS/SDS has been obtained from sources believed to be reliable. However, it is provided without any warranty, express or implied, regarding its accuracy.

The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for any loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This Safety Data Sheet has been prepared for, and is intended to be used only with, this product. If the product is used as a component of another product, the information contained in this MSDS/SDS may not be applicable.



Discover our FSC® certified products

Only the products that are identified as such on this document are FSC® certified