

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

Printing date 19.02.2020

Version number 1

Revision: 19.02.2020

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

- **1.1 Product identifier**
- **Trade name: FIERO**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages**
  - PW Widespread use by professional workers
  - C Consumer use
- **Sector of Use**
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
  - SU21 Consumer uses: Private households / general public / consumers
- **Product category PC31** Polishes and wax blends
- **Application of the substance / the mixture** Polish
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  - MA-FRA S.p.A. a Socio Unico
  - Via Aquileia, 44/46
  - 20021 Baranzate (MI) ITALIA
  - Tel. +39 023569981
  - [www.mafra.com](http://www.mafra.com)
  - [mafra@mafra.it](mailto:mafra@mafra.it)
- **Informing department:** [info@mafra.it](mailto:info@mafra.it)
- **1.4 Emergency telephone number:**
  - Contact the local hospital or the poison control center closest to you
  - In case of accident call the emergency number 112

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
  - The product is not classified as hazardous according to the CLP Regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Precautionary statements**
  - P102 Keep out of reach of children.
- **Additional information:**
  - Contains mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one, 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
  - Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

**- 3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of substances

**- Dangerous components:**

EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1, H304	10-20%
CAS: 56-81-5 EINECS: 200-289-5 Reg.nr.: 01-2119471987-18	glycerol	1-<3%

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

### SECTION 4: First aid measures

**- 4.1 Description of first aid measures**

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

- **After skin contact** Instantly wash with water and soap and rinse thoroughly.

- **After eye contact** Rinse opened eye for several minutes under running water.

**- After swallowing**

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

Do not induce vomiting; instantly call for medical help.

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

Sickness

No further relevant information available.

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

If swallowed, gastric irrigation

Medical supervision for at least 48 hours

### SECTION 5: Firefighting measures

**- 5.1 Extinguishing media**

**- Suitable extinguishing agents**

CO2. Do not use water.

Use fire fighting measures that suit the environment.

- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Can be released in case of fire

Carbon monoxide (CO)

**- 5.3 Advice for firefighters**

**- Protective equipment:**

Do not inhale explosion gases or combustion gases.

Protection means for respiratory tract

**- Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.

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

Dispose of contaminated material as waste according to item 13.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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- **6.4 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 information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** Protect from heat.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:**
- Do not store together with oxidising and acidic materials.
- Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:** None.
- **Recommended storage temperature:** 15-25°C
- **Storage class**
- **Class according to regulation on inflammable liquids:** Void
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### - DNELs

##### 1344-28-1 aluminium oxide

Oral	Systemic Long-term Effects	6.58 mg/Kg bw/day (Consumers)
Inhalative	Local long-term effects	15.63 mg/m <sup>3</sup> (Industrial Workers)

#### - PNECs

##### 1344-28-1 aluminium oxide

PNEC STP	20 mg/L (STP)
Soft Water	0.0749 mg/L (Water)

- **Additional information:** The lists that were valid during the compilation were used as basis.

#### - 8.2 Exposure controls

- **Personal protective equipment**
- **General protective and hygienic measures**
- Wash hands during breaks and at the end of the work.
- Do not eat, drink or smoke while working.
- Keep away from foodstuffs, beverages and food.
- Take off immediately all contaminated clothing
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves. (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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**- Material of gloves**Recommended thickness of the material:  $\geq 0.11$  mm

Nitrile rubber, NBR

**- Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 120 minutes (Permeation according to EN 16523-1:2015: Level 4).

**- Eye protection:**

Safety glasses recommended during refilling.

## SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:****Form:** Pasty**Colour:** White**- Odour:** Characteristic**- Odour threshold:** Not determined.**- pH-value at 20 °C:** 7.8**- Change in condition****Melting point/freezing point:** Not determined**Initial boiling point and boiling range:** 100 °C**- Flash point:** >61 °C**- Inflammability (solid, gaseous)** Not applicable.**- Ignition temperature:** >200 °C**- Decomposition temperature:** Not determined.**- Self-inflammability:** Product is not selfigniting.**- Explosive properties:** Product is not explosive.**- Critical values for explosion:****Lower:** 0.5 Vol %**Upper:** 7 Vol %**- Vapour pressure:** Not determined.**- Density at 20 °C** 1.05 g/cm<sup>3</sup>**- Relative density** Not determined.**- Vapour density** Not determined.**- Evaporation rate** Not determined.**- Solubility in / Miscibility with****Water:** Fully miscible**- Partition coefficient: n-octanol/water:** Not determined.**- Viscosity:****dynamic at 20 °C:** 25,000-30,000 mPas**kinematic:** Not determined.**- 9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

**- 10.1 Reactivity** Stable under normal conditions**- 10.2 Chemical stability****- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**- 10.3 Possibility of hazardous reactions** No dangerous reactions known**- 10.4 Conditions to avoid** No further relevant information available.

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- **10.5 Incompatible materials:** Reacts with acids, alkalis and oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Oral	LD50	>5,000 mg/Kg (Rat)
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Dermal	LD50	>2,000 mg/Kg (Rat)
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**1344-28-1 aluminium oxide**

Oral	LD50	>10,000 mg/Kg (Rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### - 12.1 Toxicity

##### - Aquatic toxicity:

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

LC50 (96h)	>1,000 mg/L (Fish)
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EC50 (48h)	>1,000 mg/L (Daphnia)
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**1344-28-1 aluminium oxide**

LC50 (96h)	>500 mg/L (Fish)
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EC50 (72h)	>100 mg/L (Algae)
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
- **Water hazard class 1 (German Regulation) (Self-assessment):** slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packagings:**
- **Recommendation:** Non contaminated packagings can be used for recycling.

### SECTION 14: Transport information

- |   |                 |
|---|-----------------|
| - UN-Number   |                 |
| - ADR, IMDG, IATA   | Void            |
| - 14.2 UN proper shipping name  |                 |
| - ADR, IMDG, IATA   | Void            |
| - 14.3 Transport hazard class(es)   |                 |
| - ADR, IMDG, IATA   |                 |
| - Class   | Void            |
| - Packing group   |                 |
| - ADR, IMDG, IATA   | Void            |
| - 14.5 Environmental hazards:   | Not applicable. |
| - 14.6 Special precautions for user                                       | Not applicable. |
| - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **Classification according to VbF:** Void
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

- **Relevant phrases**  
H304 May be fatal if swallowed and enters airways.
- **Department issuing data specification sheet:** Ma-Fra Laboratories
- **Contact:** lab@mafra.it
- **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)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Asp. Tox. 1: Aspiration hazard – Category 1
- **\* Data compared to the previous version altered.**