

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

Printing date 02.01.2017

Version number 1

Revision: 02.01.2017

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

**- 1.1 Product identifier**

**- Trade name: P-RAY**

**- 1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**- Application of the substance / the mixture** Metal surface treatment

**- Uses advised against**

The mixture is not recommended for industrial, professional and consumer applications not specified as relevant identified uses

**- 1.3 Details of the supplier of the safety data sheet**

**- Manufacturer/Supplier:**

MA-FRA S.p.A.

Via Aquileia, 44/46

20021 Baranzate (MI) ITALIA

mafra@mafra.it

Tel. +39 023569981

**- Informing department:**

E-mail: lab@mafra.it

info@mafra.it

**- 1.4 Emergency telephone number:** Contact the local hospital or the poison control center closest to you

**SECTION 2: Hazards identification**

**- 2.1 Classification of the substance or mixture**

**- Classification according to Regulation (EC) No 1272/2008**



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

**- 2.2 Label elements**

**- Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**- Hazard pictograms**



GHS07

**- Signal word** Warning

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

sodium mercaptoacetate

**- Hazard statements**

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

**- Precautionary statements**

P102 Keep out of reach of children.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

**- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**- 3.2 Chemical characterisation: Mixtures****- Description:** Mixture of substances**- Dangerous components:**

CAS: 367-51-1	sodium mercaptoacetate	15-30%
EINECS: 206-696-4	Acute Tox. 3, H301; Met. Corr.1, H290; Acute Tox. 4, H312; Skin	
Reg.nr.: 01-2119968564-24-0000	Sens. 1, H317	

**- Regulation (EC) No 648/2004**

anionic surfactants	< 5%
perfumes (Amberonne)	

**- 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****- General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**- After inhalation**

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

**- 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** Instantly call for doctor.**- 4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**- 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

**- 5.1 Extinguishing media****- Suitable extinguishing agents**CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.**- 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.**- 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** Not required.**- 6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.
- **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 precautions necessary if used correctly.
- **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:** Not required.
- **Further information about storage conditions:** None.
- **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.
- **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**  
Keep away from foodstuffs, beverages and food.  
Take off immediately all contaminated clothing  
Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves.

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

- **Material of gloves**  
Nitrile rubber, NBR  
Neoprene gloves
- **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.

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**- 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:** Liquid  
**Colour:** Colourless

**- Odour:** Pleasant

**- Odour threshold:** Not determined.

**- pH-value at 20 °C:** 5.5

##### - Change in condition

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** 100 °C

**- Flash point:** Not applicable

**- Inflammability (solid, gaseous)** Not applicable.

##### - Ignition temperature:

**Decomposition temperature:** Not determined.

**- Self-inflammability:** Product is not selfigniting.

**- Danger of explosion:** Product is not explosive.

##### - Critical values for explosion:

**Lower:** Not determined.

**Upper:** Not determined.

**- Vapour pressure at 20 °C:** 23 hPa

**- Density at 20 °C** 1.11 g/cm<sup>3</sup>

**- Relative density** Not determined.

**- Vapour density** Not determined.

**- Evaporation rate** Not determined.

##### - Solubility in / Miscibility with

**Water:** Not miscible or difficult to mix

**- Partition coefficient (n-octanol/water):** Not determined.

##### - Viscosity:

**dynamic:** Not determined.

**kinematic:** Not determined.

##### - Solvent content:

**Organic solvents:** 0.0 %

**Water:** 79.1 %

**Solids content:** 0.6 %

**- 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.

**- 10.5 Incompatible materials:** No further relevant information available.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**- **Acute toxicity**

Harmful if swallowed.

- **LD/LC50 values that are relevant for classification:****77-92-9 citric acid**

Oral LD50 6730 mg/Kg (rat)

**32210-23-4 Dorysil**

Oral LD50 5000 mg/Kg (rat)

**128-37-0 2,6-di-tert-butyl-p-cresol**

Oral LD50 890 mg/Kg (rat)

- **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**

May cause an allergic skin reaction.

- **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:** No further relevant information available.- **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.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

- **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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Can be deposited with household garbage with prior chemical-physical or biological treatment following consultations with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.

- **Uncleaned packagings:**

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

\*

### SECTION 14: Transport information

- **UN-Number**

- **ADR**

Void

- **14.2 UN proper shipping name**

- **ADR**

Void

- **14.3 Transport hazard class(es)**

- **ADR**

- **Class**

Void

- **Packing group**

- **ADR**

Void

- **14.5 Environmental hazards:**

- **Marine pollutant:**

No

- **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.

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **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**

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

- **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)

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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*PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Met. Corr. 1: Corrosive to metals – Category 1**Acute Tox. 3: Acute toxicity – Category 3**Acute Tox. 4: Acute toxicity – Category 4**Skin Sens. 1: Skin sensitisation – Category 1***- \* Data compared to the previous version altered.**

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