

SECTION 1: Identification of the substance/mixture and of the company/undertaking**· 1.1 Product identifier****· Trade name: JUBIN METAL PRIMER****· Article number: JMR****· 1.2 Relevant identified uses of the substance or mixture and uses advised against**

Water-based anti-corrosive metal primer paint, JUBIN METAL PRIMER, JMR.

· Product category

The product JUBIN METAL PRIMER is anti-corrosion metal primer water based on light gray tone.

· Application of the substance / the mixture

JUBIN METAL PRIMER is a primer paint based on water dispersion of styrene-acrylic binders and used for anti-corrosive and decorative protection of constructions and other elements made of steel and iron on the inside and the outside of structures, e.g. steel load-bearing and other constructions, building furniture, fences, decorative elements, housings and other parts of machines and similar.

It is not necessary to clean the surface to metal shine – shot blasting – or remove corrosive products with chemical preparations prior to painting. It suffices to remove the non-adhered rust with a wire brush or sand paper and to degrease the surface.

JUBIN METAL PRIMER coating contains inhibitors which successfully prevent and inhibit corrosion of steel and iron, and surfaces of other metals.

· 1.3 Details of the supplier of the safety data sheet**· Manufacturer/Supplier:**

JUB d.o.o.

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1262 DOL PRI LJUBLJANI

SLOVENIA

T: + 386 1 5884 183

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· Further information obtainable from:

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· 1.4 Emergency telephone number:

During normal opening times (8 - 16h CET) Group JUB: +386 1 5884 185

United Kindom: NPIS 0870 600 6266

SECTION 2: Hazards identification**· 2.1 Classification of the substance or mixture**

In accordance with Regulations on the classification of chemicals (Rules on classification and mainly directives EU 1967/548/EEC and 1999/45/EC, bound by the Regulation CLP 2008/1272/EC), the product is classified as harmful to the environment and irritant to humans due to a certain low content of corrosion inhibitors. The content of other potentially hazardous components is lower than the classification criteria.

Risks to man: it irritates eyes.

Risks to the environment: harmful to aquatic organisms: may cause long-term adverse effects in the aquatic environment.

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

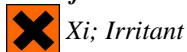


GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36: Irritating to eyes.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **2.2 Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xi Irritant

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

4-oxo-4-(p-tolyl)butyric acid adduct with 4-ethylmorpholine

· **Risk phrases:**

36 Irritating to eyes.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

2 Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of water.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· **Special labelling of certain preparations:**

Safety data sheet available for professional user 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 characterization: Mixtures

The product is a chemical compound of a polymeric emulsion and inorganic fillers.

Main ingredients of JUBIN METAL PRIMER are: acrylate binder, calcite and magnesium-silicate fillers, titanium dioxide, associative thickening agent, corrosion inhibitors and water.

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS: 171054-89-0 ELINCS: 419-240-6	4-oxo-4-(p-tolyl)butyric acid adduct with 4-ethylmorpholine ☒ Xi R41 ☠ Eye Dam. 1, H318	< 2.0%
CAS: 7779-90-0 EINECS: 231-944-3	trizinc bis(orthophosphate) ☠ N R50/53 ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 1.0%
CAS: 107-21-1 EINECS: 203-473-3	ethanediol ☒ Xn R22 ☠ Acute Tox. 4, H302	< 0.5%
CAS: 126-86-3 EINECS: 204-809-1	2,4,7,9-tetramethyldec-5-yne-4,7-diol ☒ Xi R36 ☠ Eye Irrit. 2, H319	< 0.5%
CAS: 85443-51-2 EINECS: 287-243-8	(1-hydroxyethylidene)bisphosphonic acid, compound with 2-aminoethanol (1:1) ☒ Xi R36/38 ☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	< 0.5%

· Additional information:

For the wording of the listed risk 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 complaints.

· **After skin contact:** Immediately rinse with water.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult 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:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** CO₂, sand, extinguishing powder. Do not use water.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

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- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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 disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** Storage class: 12 – Incombustible products
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients 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 valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **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.

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- **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:**



Tightly sealed goggles

- **Risk management measures**

It is recommended to use high-quality work clothing and protective equipment. Use only outfits that meet the following standards:

- Protective gloves that meet the criteria of EN 388 (Category II).
- Protective goggles must comply with standard EN 166
- Protective mask respirator for small dust particles must conform to standard EN 149

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
Colour:	Light grey
Odour:	Characteristic
Odour threshold:	Not determined.

- **pH-value at 20 °C:** 8

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:**

Decomposition temperature: Not determined.

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

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

- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

- **Vapour pressure:** Not determined.

Density at 20 °C:	1.35 g/cm ³
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:	Not determined.
Kinematic:	Not determined.

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· Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.81 %
	VOC content: max 11 g/L (the product is a subject to the Directive 2004/42/EC as a coating of cat. A/d)
Solids content:	61.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
 - oral. > 5000 mg/kg (Rat)
 - dermal. > 5000 mg/kg (Rat)
 - inhal. > 5 mg/kg, 4h (Rat)

7779-90-0 trizinc bis(orthophosphate)

Oral	LD50	>5000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **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 course or sewage system.
 - Harmful to aquatic organisms

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- **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 together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
17 09 03*	other construction and demolition wastes (including mixed wastes) containing dangerous substances
15 01 02	plastic packaging

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|---|---|
| · 14.1 UN-Number | <i>JUBIN METAL PRIMER</i> is not classified as a substance or compound which would be dangerous for transport in accordance with provisions of ADR. |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es) | |
| · ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | 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 MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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Following regulation was considered in the preparation of document:

Legislation on the occupational health and safety, the chemical legislation and regulations on biocidal products, regulations on classification, packaging and labeling of chemical and biocidal products and requirements on safety data sheets for chemicals and biocidal products composition, as well as regulations on the management of packaging and packaging waste and waste.

In accordance with the current chemical legislation, the product is classified as an irritant for the user. It is also harmful to the environment due to the corrosion inhibitor.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

· **Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R41 Risk of serious damage to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Recommended restriction of use**

Indications contained by this document are based on the state of our knowledge at the moment of revision of this document. They do not present the guarantee for characteristics of the described product in terms of statutory provisions for guarantee.

Making this document available does not relieve the purchaser of this product from their responsibility to comply with applicable laws and provisions applying to this product. This is especially true for the resale of this product or mixtures made from it or products on other fields of law as well as for industrial property rights of the third party. If you process the described product or mix it with other materials, indications contained by this document cannot be transferred onto the thus obtained new product unless this is especially mentioned. In the repacking of the product, the customer must append the necessary security relevant information.

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

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· **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 Harmonized 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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent