# *MSDS Metoplax*

## *Oxidizer (natural patina) Metoplax*

***SAFETY DATA SHEET***

Version 1
08.08.2022

| **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING** | |
|---|---|
| **Identification of the substance** | Oxidizer (natural patina) |
| **Article number** | |
| **Registration number (REACH)** | **This information is not available.** |
| **EC number** | missing |
| **CAS number** | missing |
| **Relevant identified uses of the substance or mixture and uses advised against** | |
| **Identified uses:** | **Metal decoration, oxidation with natural patina for decorative and protective purposes** |
| **Details of the supplier of the safety data sheet** | |
| Limited Liability Company " SOLID "<br>Mailing Address: 190013, St. Petersburg, Moskovsky prospect, 22, lit. H, pom. 2-H<br>Legal address: 196006, St. Petersburg, Kondratenko 3, lit. C, pom. /floor 1-n/ 1 pom. 1 | |
| Phone: | +7 (921) 959-29-00 |
| Fax: | |
| **Email:** | mail@metoplax |
| **Website:** | www.metoplax.ru |
| **Emergency phone number:** | 112 |
| **Emergency Information Service:** | 112 |

## 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

**Classification in accordance with the Regulations (EC) № 1272/2008 (CLP)**

| Classification acc. to GHS | | | |
|---|---|---|---|
| Section | Hazard class | Hazard class and category | Hazard statement |
| 3.2 | Skin corrosion/irritation | Skin Corr. 2 | H315 |
| 3.4 | Skin sensitization | Skin Sens. 1B | H317 |
| 3.3 | Serious eye damage / eye irritation | Eye Irrit. 2 | H319 |
| 3.8 | Specific selective toxicity affecting individual target organs with a single exposure; respiratory tract irritation | STOT SE 3 | H335 |
| 3.8 | Specific target organ toxicity, single exposure; drowsiness | STOT Single Exp. 3 | H336 |

| | | | |
|---|---|---|---|
| 3.9 | Specific target organ toxicity, repeated exposure | STOT Rep. Exp. 2 | H373 |
| 4.1 | Hazard to the aquatic environment - long term hazard | Aquatic Chronic 3 | H412 |

**Remarks**

Full text of Hazard- and EC Hazard Statements: see SECTION 16.

**2.2 Label elements**

**Marking in accordance with the Regulations (EC) № 1272/2008 (CLP)**

**Signal word** **Caution**

**Pictograms**

**Hazard statements**

| | |
|---|---|
| H315 | Causes irritation on skin contact |
| H317 | May cause an allergic reaction in contact with skin. |
| H319 | Causes serious eye irritation |
| H335 | May cause upper respiratory tract irritation |
| H336 | May cause drowsiness and dizziness |
| H373 | May cause damage to organs through repeated or prolonged exposure |
| H412 | Harmful to aquatic life with long lasting effects |

**Precautionary statements**

**Precautionary statements – prevention**

| | |
|---|---|
| P260 | Do not breathe gas/vapours/dust/aerosols |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well ventilated area |
| P273 | Avoid release to the environment |
| P280 | Use gloves / overalls / eye protection / face protection (type indicated by manufacturer / supplier) |

**Precautionary statements - response**

| | |
|---|---|
| P302 + P352: | IF ON SKIN:Wash with plenty of water |
| P304+P340+P312 | IF INHALED: Fresh air, rest. Seek medical attention if you feel |

| | |
|---|---|
| | unwell |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if you use them and if it is easy to do. Continue eye rinsing |
| P312 | Seek medical attention if you feel unwell |
| P332 + P311 | If skin irritation occurs, seek medical attention. |
| P337 + P311 | If eye irritation persists, seek medical attention. |
| P362 + 364 | Remove all contaminated clothing and wash it before reuse. |

**Labelling of packages where the contents do not exceed 125 ml**

Signal word: Caution

Symbol(s)

| | |
|---|---|
| P302 + P352: | IF ON SKIN: Wash with plenty of water; |
| P304+P340+P312 | IF INHALED: Fresh air, rest. Seek medical attention if you feel unwell |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if you use them and if it is easy to do. Continue eye rinsing |

### 2.3 Other hazards

There is no additional information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Mixture consists of:

| **Water** | **90 %** |
|---|---|
| EC number | missing |
| CAS number | missing |
| **Salt** | **9 %** |
| EC number | missing |
| CAS number | missing |
| **Functional additives** | **1 %** |
| EC number | missing |

| | |
|---|---|
| CAS number | missing |

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General notes**

Take off contaminated clothing.

**Following inhalation**

Fresh air, peace, warmth. In all cases of doubt, or when symptoms persist, seek medical advice.

**Following skin contact**

Remove excess matter with a cotton swab, rinse with running water and soap. In all cases of doubt, or when symptoms persist, seek medical advice.

**Following eye contact**

Rinse under running water with wide open palpebral fissure. In all cases of doubt, or when symptoms persist, seek medical advice.

**Following ingestion**

Rinse the mouth water, drink plenty of water, activated carbon, saline laxative. Get medical advice/attention if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

May cause damage to organs through repeated or prolonged exposure. Causes irritation on contact with skin.

Causes severe irritation in case of contact with eyes.

May cause irritation of the upper respiratory tract.

May cause an allergic reaction on contact with skin.

May cause drowsiness and dizziness.

### 4.3 Indication of any immediate medical attention and special treatment needed

none

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media**

Coordinate fire-fighting measures to the fire surroundings

water spray, foam, alcohol resistant foam, dry extinguishing powder, carbon dioxide ($CO_2$)

**Unsuitable extinguishing media**

There are no fire extinguishing restrictions for this substance / mixture.

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

Exposure to extreme heat can give rise to thermal decomposition.

**Hazardous combustion products**

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide ($CO_2$)

**5.3 Advice for firefighters**

Vapours are heavier than air. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

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

**For non-emergency personnel**

Do not breathe vapour/spray. Avoid contact with skin and eyes. Provide adequate ventilation

**6.2 Environmental precautions**

Keep away from drains, surface and ground water.

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

**Advices on how to contain a spill**

Covering of drains.

**Advices on how to clean up a spill**

Absorb with liquid-binding material (e.g. sand, universal binding agents).

**Other information relating to spills and releases**

Place in appropriate containers for disposal.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

## 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling**

Provide adequate ventilation. When not in use, keep containers tightly closed.

**Advice on general occupational hygiene**

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a cool place.

**Incompatible substances or mixtures**

Observe hints for combined storage.

**Consideration of other advice**

**• Ventilation requirements**

Use local and general ventilation.

**• Specific designs for storage rooms or vessels**

Recommended storage temperature: 15 – 25 °C.

**7.3 Specific end use(s)**

No information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters**

**National limit values**

**Occupational exposure limit values (Workplace Exposure Limits)**

no data

**8.2 Exposure controls**

**Individual protection measures (personal protective equipment)**

**Eye/face protection**

Use safety goggle with side protection.

**Skin protection**

**• hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**• type of material**

NBR (Nitrile rubber)

**• material thickness**

>0,11 mm

**• breakthrough times of the glove material**

>480 minutes (permeation: level 6)

**• other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

**Respiratory protection**

Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , color code: Brown).

**Environmental exposure controls**

Keep away from drains, surface and ground water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance**

| | |
|---|---|
| Physical state | Liquid mass |
| Odour | slight smell of organic polyurethane |
| Odour threshold | no data available |

**Other physical and chemical parameters**

| | |
|---|---|
| pH (value) | no data available |
| Density | no data available |
| Melting point/freezing point | no data available |
| Initial boiling point and boiling range | no data available |
| Flash point | no data available |
| Evaporation rate | no data available |
| Flammability (solid, gas) | this information is not available |
| Explosive limits | |
| • lower explosion limit (LEL) | this information is not available |
| • upper explosion limit (UEL) | this information is not available |
| Explosion limits of dust clouds | this information is not available |

| | |
|---|---|
| Vapour pressure | this information is not available |
| Density | this information is not available |
| Vapour density | this information is not available |
| Bulk density | this information is not available |
| Relative density | 2500 kg/$m^3$ |
| Solubility(ies) | |
| Water solubility | this information is not available |
| Partition coefficient | |
| n-octanol/water (log KOW) | this information is not available |
| Ignition temperature | this information is not available |
| Auto-ignition temperature | this information is not available |
| Decomposition temperature | this information is not available |
| Viscosity | this information is not available |
| Explosive properties | this information is not available |
| Oxidising properties | this information is not available |

**9.2 Other information**

No additional information

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity**

Exposure to extreme heat can give rise to thermal decomposition

**10.2 Chemical stability**

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**10.3 Possibility of hazardous reactions**

no data

**10.4 Conditions to avoid**

no data

**10.5 Incompatible materials**

There is no additional information.

**10.6 Hazardous decomposition products**

Hazardous combustion products: see section 5.

## 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

**Acute toxicity**

| Impact path | End temperature | Value | View |
|---|---|---|---|
| Microcalcite 2-5 microns | | | |
| oral | LD50 | > 2 000 mg/kg | rat |
| inhalation | LC50 | > 3 mg/l | rat |
| dermal | LD50 | > 2 000 mg/kg | rat |

**Skin corrosion/irritation**

May cause skin irritation.

**Serious eye damage/eye irritation**

Causes severe eye irritation.

**Respiratory or skin sensitisation**

May cause an allergic reaction in contact with skin.

**Summary of evaluation of the CMR properties**

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

**• Specific target organ toxicity - single exposure**

May cause damage to organs through repeated or prolonged exposure

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**Symptoms related to the physical, chemical and toxicological characteristics**

**• If swallowed**

nausea, vomiting, abdominal pain

**• If in eyes**

pain, tearing, redness

**• If inhaled**

headache, nausea

**• If on skin**

irritation, dryness

**Other information**

Other adverse effects: lethargy, decreased motor activity and reactions to external stimuli

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity**

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

**Aquatic toxicity (acute)**

| Endpoint | Value | Species | Source | Exposure time |
|---|---|---|---|---|
| Microcalcite 2-5 microns | | | | |
| LC50 | >100 % v./v (saturated solution) | Oncorhynchus mykiss | ECHA | 96 h |
| EC50 | > 100% v./v (saturated solution) | Daphnia magna | ECHA | 48 h |
| EC50 | > 14 mg/l | Desmodesmus subspicatus | ECHA | 72 h |

**12.2 Process of degradability**

no data

**12.3 Bioaccumulative potential**

no data

**12.4 Mobility in soil**

no data

**12.5 Results of PBT and vPvB assessment**

no data

**12.6 Other adverse effects**

no data

## 13. DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Sewage disposal-relevant information**

Do not empty into drains.

**13.2 Relevant provisions relating to waste**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**13.3 Remarks**

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## 14. TRANSPORT INFORMATION

Transport in accordance with the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), the Regulations for the International Carriage of Dangerous Goods by Rail (RID), the International Maritime Dangerous Goods Code (IMDG), the rules established by the International Air Transport Association (IATA).

| | |
|---|---|
| IMDG: | |
| UN number: | 1263 |
| Proper shipping name: | MATERIAL PAINT (including paint thinner or thinner) |
| Class: | 3 |
| Additional hazard: | - |
| Packing group: | III |
| Special provisions: | 163 |
| RID: | |
| UN number: | 1263 |
| Class: | - |
| Classification code: | F1 |
| Packing instructions: | P001 |
| Special packing provisions: | PP1 |
| Special provisions: | - |
| IATA: | |
| UN number: | 1263 |
| Packing group: | III |
| Passenger aircraft: | |
| EQ | E1 |
| Packing instructions: | P001 |
| Maximum net quantity per package | 5 l |
| Cargo aircraft: | |
| Packing instructions: | P001 |
| Maximum net quantity per package: | 5 l |

| | |
|---|---|
| ERG Code | - |

## 15. REGULATORY INFORMATION

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

**Relevant provisions of the European Union (EU)**

- **Regulation 649/2012 / EU on the export and import of hazardous chemicals (PIC)**

Not listed

- **Regulation 1005/2009/EU on substances that deplete the ozone layer (ODS)**

Not listed

- **Regulation 850/2004 / EU on Persistent Organic Pollutants (POP)**

Not listed

- **Restrictions in accordance with REACH, Annex XVII**

Not listed

- **• List of substances subject to authorization (REACH, Annex XIV)**

Not listed

- **Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment. (RoHS) - Annex II**

Not listed

- **Regulation 166/2006 / EU on the establishment of European Pollutant Release and Transfer Registers**

Not listed

- **Directive 2000/60 / EC establishing a framework for Community action in the field of water policy**

Not listed

**National regulations**

The substance is included in the following national regulations:

- EINECS/ELINCS (Europe)

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance.

## 16. OTHER INFORMATION

| Abbr. | Descriptions of used abbreviations |
|---|---|

| | |
|---|---|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances |
| CLP | Regulation (EC) No 1272/2008 on the classification, labeling and packaging of substances and mixtures |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail |
| STEL | short-term exposure limit |
| TWA | time-weighted average |

| | |
|---|---|
| vPvB | very Persistent and very Bioaccumulative |
| WES | Safe Work Australia: Workplace exposure standards for airborne conatminants |

**Main literature references and data sources**

- Regulation (EU) No 1907/2006 (REACH), as amended by 453/2010 / EU
- Regulation (EU) No. 1272/2008 (CLP, EU GHS)

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

| Code | Text |
|---|---|
| H315 | Causes irritation on skin contact |
| H317 | May cause an allergic reaction in contact with skin. |
| H319 | Causes serious eye irritation |
| H335 | May cause upper respiratory tract irritation |
| H336 | May cause drowsiness and dizziness |
| H373 | May cause damage to organs through repeated or prolonged exposure |
| H412 | Harmful to aquatic life with long lasting effects |

**Disclaimer**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.