

This SDS is an English translation of Regulation (EU) nº 2015/830, without any country-specific legislation

S2B - RUST PREVENTIVE OXIRON BLUING PAINT Colours: 0202, 0204, 0214

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

S2B - RUST PREVENTIVE OXIRON BLUING PAINT Colours: 0202, 0204, 0214

Other means of identification:

Non-applicable

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

Relevant uses: Enamel

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Industrias Titán, S.A.U. Pol. Ind. Pratense, calle 114 nº 17-19 08820 El Prat de Llobregat - Barcelona - España Phone.: +34 934 797 494 - Fax: +34 934 797 495 msds@titanlux.es http://www.titanlux.es

1.4 Emergency telephone number: +34 934 797 494 (7:30-14:30 h.) (working hours)

SECTION 2: HAZARDS IDENTIFICATION **

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Aerosol 1: Pressurised container: May burst if heated., H229 Aerosol 1: Flammable aerosols, Category 1, H222 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411 Eye Irrit. 2: Eye irritation, Category 2, H319 STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

Aerosol 1: H229 - Pressurised container: May burst if heated. Aerosol 1: H222 - Extremely flammable aerosol. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure. STOT SE 3: H336 - May cause drowsiness or dizziness. **Precautionary statements:** P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P260: Do not breathe spray. P280: Wear protective gloves/eye protection/face protection. P285: In case of inadequate ventilation wear respiratory protection. P302+P352: IF ON SKIN: Wash with plenty of water. P312: Call a POISON CENTER/doctor if you feel unwell.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F

P501: Dispose of contents/container according to the separated collection system used in your municipality.

Supplementary information:

** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

EUH066: Repeated exposure may cause skin dryness or cracking.

EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Substances that contribute to the classification

acetone; Nafta (petróleo), fracción pesada hidrodesulfurada; 1-methoxy-2-propanol; N-butyl acetate

Additional labeling:

Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of additives, aggregates, pigments and resins in solvents

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| | Identification | | Chemical name/Classification | | Concentration | |
|-------------------------|---|--------------------------------|---|---------------------|---------------|--|
| CAS: | 67-64-1 | acetone ⁽¹⁾ | | ATP CLP00 | | |
| | 200-662-2 606-001-00-8 01-2119471330-49- XXXX | Regulation 1272/2008 | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger | (1) (1) | 20 - <25 % | |
| AS: | 64742-82-1 | Nafta (petróleo), fra | cción pesada hidrodesulfurada(1) | Self-classified | | |
| | 265-185-4 649-330-00-2 Non-applicable | Regulation 1272/2008 | Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT RE 1: H37 - Danger | ⁷² 🐼 🕹 😩 | 7,5 - <10 % | |
| AS: | 1330-20-7 | Xylene ⁽¹⁾ | | Self-classified | | |
| | 215-535-7 601-022-00-9 Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. | | Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger | 1.4.4 | 5 - <7,5 % | |
| CAS: | 107-98-2 | 1-methoxy-2-propar | lo[(1) | ATP ATP01 | | |
| | :: 203-539-1 dex:: 603-064-00-3 ACH: 01-2119457435-35- XXXX Regulation 1272/2008 | | Flam. Liq. 3: H226; STOT SE 3: H336 - Warning | | 2,5 - <5 % | |
| CAS: 123-86-4 | | N-butyl acetate ⁽¹⁾ | ATP CLP00 | | | |
| | ev: 607-025-00-1 | | 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning | | 2 - <2,5 % | |
| CAS: | 13463-67-7 | Titanium dioxide (ae | rodynamic diameter ≤ 10 μm) ⁽¹⁾ | Self-classified | | |
| | | | n 1272/2008 Carc. 2: H351 - Warning | | | |
| AS: | 7779-90-0 | trizinc bis(orthophos | phate) ⁽¹⁾ | ATP CLP00 | | |
| | ev: Non-applicable | | Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning | Ł | 1 - <1,5 % | |
| CAS: | 68308-64-5 | Quaternary ammoni | um compounds, coco alkylethyldimethyl, Et sulfates ⁽¹⁾ | Self-classified | | |
| EC: Index: REACH: | 269-662-8 Non-applicable Non-applicable | Regulation 1272/2008 | 272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Eye Dam. 1: H318; Skin Corr. 1B: | | 0,2 - <0,3 % | |
| CAS: | 1314-13-2 | zinc oxide ⁽¹⁾ | | ATP CLP00 | | |
| | 215-222-5 030-013-00-7 01-2119463881-32- XXXX | Regulation 1272/2008 | Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning | Ł | 0,2 - <0,3 % | |

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:



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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

| A Technical measures | for storage |
|----------------------|-------------|
| Minimum Temp.: | 5 °C |
| Maximum Temp.: | 40 °C |
| Maximum time: | 36 Months |

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Δ

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification | Occupa | ational exposure lir | nits |
|----------------------------|--------------|----------------------|------------------------|
| acetone | IOELV (8h) | 500 ppm | 1210 mg/m ³ |
| CAS: 67-64-1 EC: 200-662-2 | IOELV (STEL) | | |



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification | Occupational exposure limits | | |
|------------------------------|------------------------------|---------|-----------------------|
| Xylene | IOELV (8h) | 50 ppm | 221 mg/m ³ |
| CAS: 1330-20-7 EC: 215-535-7 | IOELV (STEL) | 100 ppm | 442 mg/m ³ |
| 1-methoxy-2-propanol | IOELV (8h) | 100 ppm | 375 mg/m ³ |
| CAS: 107-98-2 EC: 203-539-1 | IOELV (STEL) | 150 ppm | 568 mg/m ³ |
| N-butyl acetate | IOELV (8h) | 50 ppm | 241 mg/m ³ |
| CAS: 123-86-4 EC: 204-658-1 | IOELV (STEL) | 150 ppm | 723 mg/m ³ |

DNEL (Workers):

| | Short e | Short exposure | | Long exposure | |
|-----------------------------|----------------|-----------------------|-------------------------|------------------------|-----------------------|
| Identification | Identification | | | | Local |
| acetone | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 67-64-1 | Dermal | Non-applicable | Non-applicable | 186 mg/kg | Non-applicable |
| EC: 200-662-2 | Inhalation | Non-applicable | 2420 mg/m ³ | 1210 mg/m ³ | Non-applicable |
| Xylene | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 1330-20-7 | Dermal | Non-applicable | Non-applicable | 212 mg/kg | Non-applicable |
| EC: 215-535-7 | Inhalation | 442 mg/m ³ | 442 mg/m ³ | 221 mg/m ³ | 221 mg/m ³ |
| 1-methoxy-2-propanol | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 107-98-2 | Dermal | Non-applicable | Non-applicable | 183 mg/kg | Non-applicable |
| EC: 203-539-1 | Inhalation | 553,5 mg/m³ | 553,5 mg/m ³ | 369 mg/m ³ | Non-applicable |
| N-butyl acetate | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 123-86-4 | Dermal | 11 mg/kg | Non-applicable | 11 mg/kg | Non-applicable |
| EC: 204-658-1 | Inhalation | 600 mg/m ³ | 600 mg/m ³ | 300 mg/m ³ | 300 mg/m ³ |
| trizinc bis(orthophosphate) | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 7779-90-0 | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| EC: 231-944-3 | Inhalation | Non-applicable | Non-applicable | 5 mg/m ³ | Non-applicable |
| zinc oxide | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 1314-13-2 | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| EC: 215-222-5 | Inhalation | Non-applicable | Non-applicable | 5 mg/m ³ | 0,5 mg/m ³ |

DNEL (General population):

| | | Short exposure | | Long exposure | |
|-----------------------------|------------|-----------------------|-----------------------|------------------------|------------------------|
| Identification | Systemic | Local | Systemic | Local | |
| acetone | Oral | Non-applicable | Non-applicable | 62 mg/kg | Non-applicable |
| CAS: 67-64-1 | Dermal | Non-applicable | Non-applicable | 62 mg/kg | Non-applicable |
| EC: 200-662-2 | Inhalation | Non-applicable | Non-applicable | 200 mg/m ³ | Non-applicable |
| Xylene | Oral | Non-applicable | Non-applicable | 12,5 mg/kg | Non-applicable |
| CAS: 1330-20-7 | Dermal | Non-applicable | Non-applicable | 125 mg/kg | Non-applicable |
| EC: 215-535-7 | Inhalation | 260 mg/m ³ | 260 mg/m ³ | 65,3 mg/m ³ | 65,3 mg/m ³ |
| 1-methoxy-2-propanol | Oral | Non-applicable | Non-applicable | 33 mg/kg | Non-applicable |
| CAS: 107-98-2 | Dermal | Non-applicable | Non-applicable | 78 mg/kg | Non-applicable |
| EC: 203-539-1 | Inhalation | Non-applicable | Non-applicable | 43,9 mg/m ³ | Non-applicable |
| N-butyl acetate | Oral | 2 mg/kg | Non-applicable | 2 mg/kg | Non-applicable |
| CAS: 123-86-4 | Dermal | 6 mg/kg | Non-applicable | 6 mg/kg | Non-applicable |
| EC: 204-658-1 | Inhalation | 300 mg/m ³ | 300 mg/m ³ | 35,7 mg/m ³ | 35,7 mg/m ³ |
| trizinc bis(orthophosphate) | Oral | Non-applicable | Non-applicable | 0,83 mg/kg | Non-applicable |
| CAS: 7779-90-0 | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| EC: 231-944-3 | Inhalation | Non-applicable | Non-applicable | 2,5 mg/m ³ | Non-applicable |
| zinc oxide | Oral | Non-applicable | Non-applicable | 0,83 mg/kg | Non-applicable |
| CAS: 1314-13-2 | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| EC: 215-222-5 | Inhalation | Non-applicable | Non-applicable | 2,5 mg/m ³ | Non-applicable |
| PNEC: | | - | | | |



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | | | |
|-----------------------------|--------------|----------------|-------------------------|-------------|
| acetone | STP | 100 mg/L | Fresh water | 10,6 mg/L |
| CAS: 67-64-1 | Soil | 29,5 mg/kg | Marine water | 1,06 mg/L |
| EC: 200-662-2 | Intermittent | 21 mg/L | Sediment (Fresh water) | 30,4 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 3,04 mg/kg |
| Xylene | STP | 6,58 mg/L | Fresh water | 0,327 mg/L |
| CAS: 1330-20-7 | Soil | 2,31 mg/kg | Marine water | 0,327 mg/L |
| EC: 215-535-7 | Intermittent | 0,327 mg/L | Sediment (Fresh water) | 12,46 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 12,46 mg/kg |
| 1-methoxy-2-propanol | STP | 100 mg/L | Fresh water | 10 mg/L |
| CAS: 107-98-2 | Soil | 4,59 mg/kg | Marine water | 1 mg/L |
| EC: 203-539-1 | Intermittent | 100 mg/L | Sediment (Fresh water) | 52,3 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 5,2 mg/kg |
| N-butyl acetate | STP | 35,6 mg/L | Fresh water | 0,18 mg/L |
| CAS: 123-86-4 | Soil | 0,09 mg/kg | Marine water | 0,018 mg/L |
| EC: 204-658-1 | Intermittent | 0,36 mg/L | Sediment (Fresh water) | 0,981 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,098 mg/kg |
| trizinc bis(orthophosphate) | STP | 0,1 mg/L | Fresh water | 0,0206 mg/L |
| CAS: 7779-90-0 | Soil | 35,6 mg/kg | Marine water | 0,0061 mg/L |
| EC: 231-944-3 | Intermittent | Non-applicable | Sediment (Fresh water) | 117,8 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 56,5 mg/kg |
| zinc oxide | STP | 0,1 mg/L | Fresh water | 0,0206 mg/L |
| CAS: 1314-13-2 | Soil | 35,6 mg/kg | Marine water | 0,0061 mg/L |
| EC: 215-222-5 | Intermittent | Non-applicable | Sediment (Fresh water) | 117,8 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 56,5 mg/kg |

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

| | Pictogram | PPE | Labelling | CEN Standard | Remarks | | | |
|-----|--|---|-----------|--|---|--|--|--|
| | Mandatory respiratory tract protection | Filter mask for gases, vapours and particles | | EN 149:2001+A1:2009 EN 405:2002+A1:2010 | Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected. | | | |
| C 9 | C Specific protection for the hands | | | | | | | |
| | | | | | | | | |

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|------------------------------|--|-----------|---|--|
| Mandatory hand protection | NON-disposable chemical protective gloves | | EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN 420:2004+A1:2010 | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Ocular and facial protection

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| CTION | 8: EXPOSURE | CONTR | OLS/PERSONA | AL PROTECTI | ON (| continued) | | |
|-------|---------------------------------------|-------------------------|--|-------------|------|--|----|---|
| | | | | | | | | |
| | Pictogram | | PPE | Labelling | | CEN Standard | | Remarks |
| | Mandatory face protection | F | ace shield | | E | EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018 | | a daily and disinfect periodically according to nanufacturer´s instructions. Use if there is a risk of splashing. |
| E | Body protection | | | | | | | |
| | Pictogram | | PPE | Labelling | | CEN Standard | | Remarks |
| | Mandatory complete body protection | protectio risks, w | able clothing for n against chemical ith antistatic and roof properties | | E | EN 1149-1,2,3 3034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 IN ISO 6530:2005 N ISO 13688:2013 EN 464:1994 | | r professional use only. Clean periodically ording to the manufacturer's instructions. |
| | Mandatory foot protection | protectio risk, with | ry footwear for n against chemical antistatic and heat tant properties | | E | N ISO 13287:2013 N ISO 20345:2011 EN 13832-1:2019 | Re | eplace boots at any sign of deterioration. |
| F | Additional emerge | ency mea | isures | | | | | |
| | Emergency mea | isure | St | andards | | Emergency measu | re | Standards |
| | | | | | | | | |

| Emergency measure | Standards | Emergency measure | Standards |
|-------------------|---|-------------------|--|
| Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 | Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D **Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

| V.O.C. (Supply): | 71,4 % weight |
|---------------------------|-------------------------------------|
| V.O.C. density at 20 °C: | 708,5 kg/m ³ (708,5 g/L) |
| Average carbon number: | 4,02 |
| Average molecular weight: | 72,69 g/mol |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| Physical state at 20 °C: | Aerosol | |
|--|----------------------|--|
| Appearance: | Not available | |
| Colour: | Not available | |
| Odour: | Not available | |
| Odour threshold: | Non-applicable * | |
| Volatility: | | |
| Boiling point at atmospheric pressure: | -42 °C (Propellant) | |
| Vapour pressure at 20 °C: | Non-applicable * | |
| Vapour pressure at 50 °C: | <300000 Pa (300 kPa) | |
| Evaporation rate at 20 °C: | Non-applicable * | |
| *Not relevant due to the nature of the product, not providing information property of its hazards. | | |



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| Density at 20 °C:Non-applicable *Relative density at 20 °C:Non-applicable *Dynamic viscosity at 20 °C:Non-applicable *Kinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *Concentration:Non-applicable *PH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Melting point/freezing point:Non-applicable *Parmability:Non-applicable *Flammability:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper explosive limit:Non-applicable *Explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosi | Product description: | |
|--|---|--|
| Dynamic viscosity at 20 °C:Non-applicable *Kinematic viscosity at 20 °C:Non-applicable *Kinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *PH:Non-applicable *Vapour density at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Percipient pressure:Non-applicable *Recipient pressure:Non-applicable *Disiding properties:Non-applicable *Oxidising properties:Non-applicable *Disiding properties:Non-applicable *Hammability:1.04 °C (Propellant)Heat of combustion:Non-applicable *I cower flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper explosive limit:Non-applicable *Upper explosive l | Density at 20 °C: | Non-applicable * |
| Kinematic viscosity at 20 °C:Non-applicable *Kinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Oxidising properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper explosive limit:Non-applicable *Lower flammability limit:365 °C (Propellant)Lower flammability limit:Non-applicable *Solubive flammability limit:Non-applicable *Lower flammability limit:Non-applicable *Upper explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Solubicable *Non-applicable *Lower explosive limit:Non-applicable *Lower flammability limit:Solubicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Lower explosive limit:Non-applicable | Relative density at 20 °C: | Non-applicable * |
| Kinematic viscosity at 40 °C:Non-applicable *Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Cxidising properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *I cower flammability limit:.365 °C (Propellant)Lower flammability limit:.1,5 % VolumeUpper flammability limit:Non-applicable *Lower flammability limit:Non-applicable *I cover flammability limit:Non-applicable *< | Dynamic viscosity at 20 °C: | Non-applicable * |
| Concentration:Non-applicable *pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Metting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Surface tension at 20 °C:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Kinematic viscosity at 20 °C: | Non-applicable * |
| pH:Non-applicable *Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Metting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower endmability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive limit:Non-applicable *Lower explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Kinematic viscosity at 40 °C: | Non-applicable * |
| Vapour density at 20 °C:Non-applicable *Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Non-applicable *Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive limit:Non-applicable *Juper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Concentration: | Non-applicable * |
| Partition coefficient n-octanol/water 20 °C:Non-applicable *Solubility in water at 20 °C:Solubility properties:Non-applicable *Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Dxidising properties:Non-applicable *Oxidising properties:Non-applicable *Dxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeLower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | pH: | Non-applicable * |
| Solubility in water at 20 °C:Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeLower explosive limit:Non-applicable *Lower explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Vapour density at 20 °C: | Non-applicable * |
| Solubility properties:Non-applicable *Decomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Partition coefficient n-octanol/water 20 °C: | Non-applicable * |
| Decomposition temperature:Non-applicable *Melting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Solubility in water at 20 °C: | |
| Melting point/freezing point:Non-applicable *Recipient pressure:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive limit:Non-applicable *Lower explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Solubility properties: | Non-applicable * |
| Recipient pressure:Non-applicable *Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive:Upper explosive limit:Lower explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Decomposition temperature: | Non-applicable * |
| Explosive properties:Non-applicable *Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive:Upper explosive limit:Lower explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Melting point/freezing point: | Non-applicable * |
| Oxidising properties:Non-applicable *Flammability:-104 °C (Propellant)Flash Point:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Recipient pressure: | Non-applicable * |
| Flammability:Flash Point:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive:Upper explosive limit:Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Explosive properties: | Non-applicable * |
| Flash Point:-104 °C (Propellant)Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % Volume Explosive: Von-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Oxidising properties: | Non-applicable * |
| Heat of combustion:Non-applicable *Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Flammability: | |
| Flammability (solid, gas):Non-applicable *Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive:VolumeLower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:VolumeSurface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Flash Point: | -104 °C (Propellant) |
| Autoignition temperature:365 °C (Propellant)Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive:13 % VolumeLower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Surface tension at 20 °C:Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Heat of combustion: | Non-applicable * |
| Lower flammability limit:1,5 % VolumeUpper flammability limit:13 % VolumeExplosive:13 % VolumeLower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Surface tension at 20 °C:Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Flammability (solid, gas): | Non-applicable * |
| Upper flammability limit:13 % VolumeExplosive:Non-applicable *Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Surface tension at 20 °C:Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Autoignition temperature: | 365 °C (Propellant) |
| Explosive:Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Von-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Lower flammability limit: | 1,5 % Volume |
| Lower explosive limit:Non-applicable *Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Upper flammability limit: | 13 % Volume |
| Upper explosive limit:Non-applicable *Other information:Non-applicable *Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Explosive: | |
| Other information:Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Lower explosive limit: | Non-applicable * |
| Surface tension at 20 °C:Non-applicable *Refraction index:Non-applicable * | Upper explosive limit: | Non-applicable * |
| Refraction index: Non-applicable * | Other information: | |
| | Surface tension at 20 °C: | Non-applicable * |
| *Not relevant due to the nature of the product, not providing information preparety of its barande | Refraction index: | Non-applicable * |
| not relevant due to the nature of the product, not providing information property of its fidzards. | *Not relevant due to the nature of the product, not providing | g information property of its hazards. |

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| | Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|------|------------------------|------------------|-------------------------|-----------------------|-------------------------------|
| | Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |
| 10.5 | Incompatible materials | : | | | |
| | Acids | Water | Oxidising materials | Combustible materials | Others |
| | Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |



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SECTION 10: STABILITY AND REACTIVITY (continued)

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION **

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
 - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
 - IARC: Diiron trioxide (3); Xylene (3); Titanium dioxide (aerodynamic diameter \leq 10 µm) (2B)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

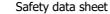
Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
 - Skin: Repeated exposure may cause skin dryness or cracking
- H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

** Changes with regards to the previous version





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S2B - RUST PREVENTIVE OXIRON BLUING PAINT Colours: 0202, 0204, 0214

SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

CAS 13463-67-7 Titanium dioxide (aerodynamic diameter \leq 10 µm): The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter \leq 10 µm

Specific toxicology information on the substances:

| Identification | Act | ute toxicity | Genus |
|--|-----------------|-----------------|--------|
| acetone | LD50 oral | 5800 mg/kg | Rat |
| CAS: 67-64-1 | LD50 dermal | 7426 mg/kg | Rabbit |
| EC: 200-662-2 | LC50 inhalation | 76 mg/L (4 h) | Rat |
| N-butyl acetate | LD50 oral | 12789 mg/kg | Rat |
| CAS: 123-86-4 | LD50 dermal | 14112 mg/kg | Rabbit |
| EC: 204-658-1 | LC50 inhalation | 23,4 mg/L (4 h) | Rat |
| Xylene | LD50 oral | 2100 mg/kg | Rat |
| CAS: 1330-20-7 | LD50 dermal | 1100 mg/kg | Rat |
| EC: 215-535-7 | LC50 inhalation | 29 mg/L (4 h) | Rat |
| Titanium dioxide (aerodynamic diameter ≤ 10 µm) | LD50 oral | 10000 mg/kg | Rat |
| CAS: 13463-67-7 | LD50 dermal | 10000 mg/kg | Rabbit |
| EC: 236-675-5 | LC50 inhalation | Non-applicable | |
| Nafta (petróleo), fracción pesada hidrodesulfurada | LD50 oral | 5100 mg/kg | Rat |
| CAS: 64742-82-1 | LD50 dermal | 3160 mg/kg | Rabbit |
| EC: 265-185-4 | LC50 inhalation | Non-applicable | |
| zinc oxide | LD50 oral | 7950 mg/kg | Mouse |
| CAS: 1314-13-2 | LD50 dermal | Non-applicable | |
| EC: 215-222-5 | LC50 inhalation | Non-applicable | |

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

| Identification | | Acute toxicity | Species | Genus |
|--|------|----------------------|---------------------------|------------|
| acetone | LC50 | 5540 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| CAS: 67-64-1 | EC50 | 23.5 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 200-662-2 | EC50 | 3400 mg/L (48 h) | Chlorella pyrenoidosa | Algae |
| Nafta (petróleo), fracción pesada hidrodesulfurada | LC50 | >0.1 - 1 mg/L (96 h) | | Fish |
| CAS: 64742-82-1 | EC50 | >0.1 - 1 mg/L (48 h) | | Crustacean |
| EC: 265-185-4 | EC50 | >0.1 - 1 mg/L (72 h) | | Algae |
| Xylene | LC50 | 13.5 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| CAS: 1330-20-7 | EC50 | 3.4 mg/L (48 h) | Ceriodaphnia dubia | Crustacean |
| EC: 215-535-7 | EC50 | 10 mg/L (72 h) | Skeletonema costatum | Algae |
| 1-methoxy-2-propanol | LC50 | 20800 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 107-98-2 | EC50 | 23300 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 203-539-1 | EC50 | 1000 mg/L (168 h) | Selenastrum capricornutum | Algae |
| N-butyl acetate | LC50 | 62 mg/L (96 h) | Leuciscus idus | Fish |
| CAS: 123-86-4 | EC50 | 73 mg/L (24 h) | Daphnia magna | Crustacean |
| EC: 204-658-1 | EC50 | 675 mg/L (72 h) | Scenedesmus subspicatus | Algae |
| trizinc bis(orthophosphate) | LC50 | >0.1 - 1 mg/L (96 h) | | Fish |
| CAS: 7779-90-0 | EC50 | >0.1 - 1 mg/L (48 h) | | Crustacean |
| EC: 231-944-3 | EC50 | >0.1 - 1 mg/L (72 h) | | Algae |
| Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates | LC50 | >0.1 - 1 mg/L (96 h) | | Fish |
| CAS: 68308-64-5 | EC50 | >0.1 - 1 mg/L (48 h) | | Crustacean |
| EC: 269-662-8 | EC50 | >0.1 - 1 mg/L (72 h) | | Algae |

** Changes with regards to the previous version





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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

| Identification | | Acute toxicity | Species | Genus |
|----------------|------|------------------|----------------------|------------|
| zinc oxide | LC50 | 0.82 mg/L (96 h) | Oncorhynchus kisutch | Fish |
| CAS: 1314-13-2 | EC50 | 3.4 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 215-222-5 | EC50 | Non-applicable | | |

12.2 Persistence and degradability:

| Identification | De | gradability | Biode | gradability |
|----------------------|----------|----------------|-----------------|----------------|
| acetone | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 67-64-1 | COD | Non-applicable | Period | 28 days |
| EC: 200-662-2 | BOD5/COD | Non-applicable | % Biodegradable | 96 % |
| Xylene | BOD5 | Non-applicable | Concentration | Non-applicable |
| CAS: 1330-20-7 | COD | Non-applicable | Period | 28 days |
| EC: 215-535-7 | BOD5/COD | Non-applicable | % Biodegradable | 88 % |
| 1-methoxy-2-propanol | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 107-98-2 | COD | Non-applicable | Period | 28 days |
| EC: 203-539-1 | BOD5/COD | Non-applicable | % Biodegradable | 90 % |
| N-butyl acetate | BOD5 | Non-applicable | Concentration | Non-applicable |
| CAS: 123-86-4 | COD | Non-applicable | Period | 5 days |
| EC: 204-658-1 | BOD5/COD | Non-applicable | % Biodegradable | 84 % |

12.3 Bioaccumulative potential:

| Identification | Bioaccun | nulation potential |
|----------------------|-----------|--------------------|
| acetone | BCF | 1 |
| CAS: 67-64-1 | Pow Log | -0.24 |
| EC: 200-662-2 | Potential | Low |
| Xylene | BCF | 9 |
| CAS: 1330-20-7 | Pow Log | 2.77 |
| EC: 215-535-7 | Potential | Low |
| 1-methoxy-2-propanol | BCF | 3 |
| CAS: 107-98-2 | Pow Log | -0.44 |
| EC: 203-539-1 | Potential | Low |
| N-butyl acetate | BCF | 4 |
| CAS: 123-86-4 | Pow Log | 1.78 |
| EC: 204-658-1 | Potential | Low |

12.4 Mobility in soil:

| Identification | Absorp | tion/desorption | Volat | ility |
|-----------------|-----------------|----------------------|------------|-------------------------------|
| acetone | Кос | 1 | Henry | 2,93 Pa·m³/mol |
| CAS: 67-64-1 | Conclusion | Very High | Dry soil | Yes |
| EC: 200-662-2 | Surface tension | 2,304E-2 N/m (25 °C) | Moist soil | Yes |
| Xylene | Кос | 202 | Henry | 524,86 Pa·m ³ /mol |
| CAS: 1330-20-7 | Conclusion | Moderate | Dry soil | Yes |
| EC: 215-535-7 | Surface tension | Non-applicable | Moist soil | Yes |
| N-butyl acetate | Кос | Non-applicable | Henry | Non-applicable |
| CAS: 123-86-4 | Conclusion | Non-applicable | Dry soil | Non-applicable |
| EC: 204-658-1 | Surface tension | 2,478E-2 N/m (25 °C) | Moist soil | Non-applicable |

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:



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S2B - RUST PREVENTIVE OXIRON BLUING PAINT Colours: 0202, 0204, 0214

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|---|
| 16 05 04* | gases in pressure containers (including halons) containing hazardous substances | Dangerous |

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

UN1950

2

2.1

N/A

Yes

AEROSOLS, flammable

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019: 14.1 UN number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): Labels: 14.4 Packing group: 14.5 Environmental hazards: 14.6 Special precautions for user

- 14.6 Special precautions for user
 Special regulations: 190, 327, 344, 625
 Tunnel restriction code: D
 Physico-Chemical properties: see section 9
 Limited quantities: 1 L
 14.7 Transport in bulk according to Annex II of Marpol and
- the IBC Code: Transport of dangerous goods by sea:

With regard to IMDG 39-18:

| 14.1 | UN number: | UN1950 |
|-------------------------|---|-----------------------------|
| 🔺 🕂 14.2 | UN proper shipping name: | AEROSOLS, flammable |
| 🔥 🐙 🔪 14.3 | Transport hazard class(es): | 2 |
| | Labels: | 2.1 |
| ▼ ✓ 14.4 | Packing group: | N/A |
| 14.5 | Marine pollutant: | Yes |
| 14.6 | Special precautions for user | |
| | Special regulations: | 63, 959, 190, 277, 327, 344 |
| | EmS Codes: | F-D, S-U |
| | Physico-Chemical properties: | see section 9 |
| | Limited quantities: | 1 L |
| | Segregation group: | Non-applicable |
| 14.7 | Transport in bulk according to Annex II of Marpol and the IBC Code: | Non-applicable |
| Transport of danger | ous goods by air: | |
| With record to IATA /IC | AO 2020. | |

With regard to IATA/ICAO 2020:

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| SECTION 14: TRANSPORT | SECTION 14: TRANSPORT INFORMATION (continued) | | | |
|-----------------------|--|---|--|--|
| 14.3 14.4 14.5 | UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards: Special precautions for user | UN1950 AEROSOLS, flammable 2 2.1 N/A Yes | | |
| 14.7 | Physico-Chemical properties: Transport in bulk according to Annex II of Marpol and the IBC Code: | see section 9 Non-applicable | | |

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|----------------------------|----------------------------|
| P3a | FLAMMABLE AEROSOLS | 150 | 500 |
| E2 | ENVIRONMENTAL HAZARDS | 200 | 500 |

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors: Contains acetone. Product under the provisions of Article 9.

Shall not be used in:

—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:



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| SECTION 16: OTHER INFORMATION ** (continued) | |
|---|--|
| | |
| COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12): · New declared substances | |
| Xylene (1330-20-7) | |
| Nafta (petróleo), fracción pesada hidrodesulfurada (64742-82-1) | |
| Titanium dioxide (aerodynamic diameter \leq 10 µm) (13463-67-7) | |
| · Removed substances | |
| Xylene (1330-20-7) | |
| Naphtha (petroleum), hydrodesulphurized heavy (64742-82-1) | |
| Ethylbenzene (100-41-4) CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): | |
| · Pictograms | |
| · Hazard statements | |
| Precautionary statements | |
| · Supplementary information | |
| Texts of the legislative phrases mentioned in section 2: | |
| H336: May cause drowsiness or dizziness. | |
| H411: Toxic to aquatic life with long lasting effects. | |
| H373: May cause damage to organs through prolonged or repeated exposure. H229: Pressurised container: May burst if heated. | |
| H222: Extremely flammable aerosol. | |
| H319: Causes serious eye irritation. | |
| Texts of the legislative phrases mentioned in section 3: | |
| The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the | |
| individual components which appear in section 3 | |
| CLP Regulation (EC) No 1272/2008: | |
| Acute Tox. 4: H302 - Harmful if swallowed. | |
| Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled. | |
| Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. | |
| Aquate Circline 1. 11410 - Very toxic to aquate me with long lasting enects. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. | |
| Carc. 2: H351 - Suspected of causing cancer (Inhalation). | |
| Eye Dam. 1: H318 - Causes serious eye damage. | |
| Eye Irrit. 2: H319 - Causes serious eye irritation. | |
| Flam. Liq. 2: H225 - Highly flammable liquid and vapour. | |
| Flam. Liq. 3: H226 - Flammable liquid and vapour. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. | |
| Skin Cont. 10. 11314 - Causes severe skin burns and eye damage. Skin Irrit. 2: H315 - Causes skin irritation. | |
| STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure. | |
| STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral). | |
| STOT SE 3: H335 - May cause respiratory irritation. | |
| STOT SE 3: H336 - May cause drowsiness or dizziness. | |
| Classification procedure: | |
| STOT SE 3: Calculation method | |
| Aquatic Chronic 2: Calculation method STOT RE 2: Calculation method | |
| Aerosol 1: Calculation method | |
| Aerosol 1: Calculation method | |
| Eye Irrit. 2: Calculation method | |
| Advice related to training: | |
| Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their | |
| comprehension and interpretation of this safety data sheet, as well as the label on the product. | |
| Principal bibliographical sources: | |
| http://echa.europa.eu | |
| http://eur-lex.europa.eu Abbreviations and acronyms: | |
| | |

** Changes with regards to the previous version

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SECTION 16: OTHER INFORMATION ** (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LOg-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

** Changes with regards to the previous version

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.