



METAL PRIMER



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

- 1.1 Product identifier:** METAL PRIMER
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Anticorrosive primer for metal
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:**
DUROSTICK SA
PATIMA KOROREMI
193 00 ASPROPIRGOS, ATTICA - GREECE
Phone.: 211 60 03 500-599 -
Fax: 210 55 99 612
info@durostick.gr
www.durostick.gr
- 1.4 Emergency telephone number:** 210 7793 777

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Directive 67/548/EC and Directive 1999/45/EC:

This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) n°1907/2006 (REACH regulation).

N: R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Xn: R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation, R65 - Harmful: may cause lung damage if swallowed

R10 - Flammable

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapours may cause drowsiness and dizziness

CLP Regulation (EC) n° 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.

Acute Tox. 4: Acute inhalation toxicity, Category 4

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2

Asp. Tox. 1: Aspiration hazard, Category 1

Flam. Liq. 3: Flammable liquids, Category 3

STOT RE 1: Specific target organ toxicity, repeated exposure, Category 1

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

2.2 Label elements:

Directive 67/548/EC and Directive 1999/45/EC:

In accordance with the legislation, the elements on the label are as follows:



R Phrases:

R10: Flammable

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65: Harmful: may cause lung damage if swallowed

R66: Repeated exposure may cause skin dryness or cracking

R67: Vapours may cause drowsiness and dizziness

S Phrases:

S2: Keep out of the reach of children

S43: In case of fire, use polyvalent powder ABC

S46: If swallowed, seek medical advice immediately and show this container or label

Supplementary information:

P99: Contains Butanone oxime. May cause an allergic reaction

Substances that contribute to the classification:

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SECTION 2: HAZARDS IDENTIFICATION (continue)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

CLP Regulation (EC) n° 1272/2008:

Danger



Hazard statements:

- Acute Tox. 4: H332 - Harmful if inhaled
- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
- Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
- Flam. Liq. 3: H226 - Flammable liquid and vapour
- STOT RE 1: H372 - Causes 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
- P103: Read label before use
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P331: Do NOT induce vomiting
- P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment

Supplementary information:

- EUH066: Repeated exposure may cause skin dryness or cracking
- EUH208: Contains Butanone oxime. May produce an allergic reaction

Substances that contribute to the classification

Naphtha (petroleum), hydrodesulfurized heavy, < 0.1 % EC 200-753-7, Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), Xylene (mixture of isomers)

2.3 Other hazards:

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

Components:

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | Concentration |
|---|---|------------------------------------|
| CAS: 64742-82-1 EC: 265-185-4 Index: 649-330-00-2 REACH: 01-2119490979-12-XXXX | Naphtha (petroleum), hydrodesulfurized heavy, < 0.1 % EC 200-753-7 Directive 67/548/EC N: R51/53; Xn: R65; R10; R66; R67 Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H336 - Danger | ATP ATP05 9,9 - <19 % |
| CAS: Non-applicable EC: 919-446-0 Index: Non-applicable REACH: 01-2119458049-33-XXXX | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Directive 67/548/EC N: R51/53; Xn: R48/20, R65; R10; R66; R67 Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT RE 1: H372; STOT SE 3: H336 - Danger | Self-classified 9,9 - <19 % |
| CAS: 7779-90-0 EC: 231-944-3 Index: Non-applicable REACH: 01-2119485044-40-XXXX | trizinc bis(orthophosphate) Directive 67/548/EC N: R50/53 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning | ATP CLP00 9,9 - <19 % |
| CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32-XXXX | Xylene (mixture of isomers) Directive 67/548/EC Xi: R38; Xn: R20/21; R10 Regulation 1272/2008 Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning | ATP CLP00 4,9 - <9,9 % |
| CAS: 1314-13-2 EC: 215-222-5 Index: 030-013-00-7 REACH: 01-2119463881-32-XXXX | Zinc oxide Directive 67/548/EC N: R50/53 Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning | ATP CLP00 0,9 - <2,4 % |

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)

| Identification | Chemical name/Classification | Concentration |
|--|--|--------------------------|
| CAS: 96-29-7 EC: 202-496-6 Index: 616-014-00-0 REACH: 01-2119539477-28-XXXX | Butanone oxime ATP CLP00 | |
| | Directive 67/548/EC Carc. Cat 3: R40; Xi: R41, R43; Xn: R21 | 0,24 - <0,9 % |
| | Regulation 1272/2008 Acute Tox. 4: H312; Carc. 2: H351; Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger | 0,24 - <0,9 % |
| CAS: 91-20-3 EC: 202-049-5 Index: 601-052-00-2 REACH: 01-2119561346-37-XXXX | Naphthalene ATP CLP00 | |
| | Directive 67/548/EC Carc. Cat 3: R40; N: R50/53; Xn: R22 | 0,09 - <0,24 % |
| | Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 2: H351 - Warning | 0,09 - <0,24 % |

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

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 MSDS 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 luke warm 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, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

By consumption:

Request medical assistance immediately, showing the MSDS of this product. Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive subproducts 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 individual respiratory equipment. 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. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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 inertizing agent. 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

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). 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.: | 30 °C |
| Maximum time: | 24 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):

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 work environment

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

| Identification | | Environmental limits | |
|--|--------------|----------------------|-----------------------|
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | IOELV (8h) | 50 ppm | 221 mg/m ³ |
| | IOELV (STEL) | 100 ppm | 442 mg/m ³ |
| | Year | 2014 | |
| Naphthalene CAS: 91-20-3 EC: 202-049-5 | IOELV (8h) | 10 ppm | 50 mg/m ³ |
| | IOELV (STEL) | | |
| | Year | 2014 | |

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|-----------------------|-----------------------|------------------------|
| | | Systemic | Local | Systemic | Local |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) CAS: Non-applicable EC: 919-446-0 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 44 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 330 mg/m ³ | Non-applicable |
| trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 5 mg/m ³ | Non-applicable |
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 180 mg/kg | Non-applicable |
| | Inhalation | 289 mg/m ³ | 289 mg/m ³ | 77 mg/m ³ | Non-applicable |
| Zinc oxide CAS: 1314-13-2 EC: 215-222-5 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 5 mg/m ³ | Non-applicable |
| Butanone oxime CAS: 96-29-7 EC: 202-496-6 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | 2,5 mg/kg | Non-applicable | 1,3 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 9 mg/m ³ | 3,33 mg/m ³ |
| Naphthalene CAS: 91-20-3 EC: 202-049-5 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 3,57 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 25 mg/m ³ | 25 mg/m ³ |

DNEL (Population):

| Identification | | Short exposure | | Long exposure | |
|---|------------|----------------|----------------|------------------------|---------------------|
| | | Systemic | Local | Systemic | Local |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) CAS: Non-applicable EC: 919-446-0 | Oral | Non-applicable | Non-applicable | 26 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 26 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 71 mg/m ³ | Non-applicable |
| trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3 | Oral | Non-applicable | Non-applicable | 0,83 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 2,5 mg/m ³ | Non-applicable |
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | Oral | Non-applicable | Non-applicable | 1,6 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 108 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 14,8 mg/m ³ | Non-applicable |
| Zinc oxide CAS: 1314-13-2 EC: 215-222-5 | Oral | Non-applicable | Non-applicable | 0,83 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 83 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 2,5 mg/m ³ | Non-applicable |
| Butanone oxime CAS: 96-29-7 EC: 202-496-6 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | 1,5 mg/kg | Non-applicable | 0,78 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 2,7 mg/m ³ | 2 mg/m ³ |

PNEC:

| Identification | | | | |
|--|--------------|----------------|-------------------------|-------------|
| trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3 | STP | 0,1 mg/L | Fresh water | 0,0206 mg/L |
| | Soil | 35,6 mg/kg | Marine water | 0,0061 mg/L |
| | Intermittent | Non-applicable | Sediment (Fresh water) | 117,8 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 56,5 mg/kg |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

| Identification | | | | |
|--|--------------|----------------|-------------------------|----------------|
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | STP | 6,58 mg/L | Fresh water | 0,327 mg/L |
| | Soil | 2,31 mg/kg | Marine water | 0,327 mg/L |
| | Intermittent | 0,327 mg/L | Sediment (Fresh water) | 12,46 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 12,46 mg/kg |
| Zinc oxide CAS: 1314-13-2 EC: 215-222-5 | STP | 0,1 mg/L | Fresh water | 0,0206 mg/L |
| | Soil | 35,6 mg/kg | Marine water | 0,0061 mg/L |
| | Intermittent | Non-applicable | Sediment (Fresh water) | 117,8 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 56,5 mg/kg |
| Butanone oxime CAS: 96-29-7 EC: 202-496-6 | STP | 177 mg/L | Fresh water | 0,256 mg/L |
| | Soil | Non-applicable | Marine water | Non-applicable |
| | Intermittent | 0,118 mg/L | Sediment (Fresh water) | Non-applicable |
| | Oral | Non-applicable | Sediment (Marine water) | Non-applicable |
| Naphthalene CAS: 91-20-3 EC: 202-049-5 | STP | 2,9 mg/L | Fresh water | 0,0024 mg/L |
| | Soil | 0,0533 mg/kg | Marine water | 0,0024 mg/L |
| | Intermittent | 0,02 mg/L | Sediment (Fresh water) | 0,0672 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,0672 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 professional exposure limits. In case of using individual protection equipment they should have the "CE marking" in accordance with Directive 89/686/EC. For more information on Personal Protection 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 and vapours | CAT III | EN 405:2001+A1:2009 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

C.- Specific protection for the hands

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-------------------------------|---|-------------|---|--|
| Mandatory hand protection | NON-disposable chemical protective gloves | CAT III | EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009 | 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. |

D.- Ocular and facial protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-------------------------------|-----------|------------|---|---|
| Mandatory face protection | Face mask | CAT II | EN 166:2001 EN 167:2001 EN 168:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Bodily protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|-------------|---|---|
| Mandatory complete body protection | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties | CAT III | EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-------------------------------|---|-------------------|--|---|
| Mandatory foot protection | Safety footwear for protection against chemical risk, with antistatic and heat resistant properties | CE CAT III | EN 13287:2008 EN ISO 20345:2011 EN 13832-1:2006 EN ISO 20344:2011 | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|----------------------|--------------------------------|----------------------|-------------------------------|
| Emergency shower | ANSI Z358-1 ISO 3864-1:2002 | Eyewash stations | DIN 12 899 ISO 3864-1:2002 |

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

Volatil organic compounds:

With regard to Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply): 29,53 % weight
V.O.C. density at 20 °C: 450 kg/m³ (450 g/L)
Average carbon number: 8,71
Average molecular weight: 116,62 g/mol

With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:

V.O.C. density at 20 °C: 450 kg/m³ (450 g/L)
EUlimit for the product (Cat. A.I): 500 g/L (2010)
Components: Non-applicable

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: Liquid
Appearance: Viscous fluid
Color: White , gray
Odor: Characteristic

Volatility:

Boiling point at atmospheric pressure: 147 °C
Vapour pressure at 20 °C: 320 Pa
Vapour pressure at 50 °C: 2129 Pa (2 kPa)
Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 1554 kg/m³
Relative density at 20 °C: 1,554
Dynamic viscosity at 20 °C: 2,62 cP
Kinematic viscosity at 20 °C: 1,69 cSt
Kinematic viscosity at 40 °C: <20,5 cSt
Concentration: Non-applicable *
pH: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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METAL PRIMER



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

| | |
|--|------------------|
| 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 property: | Non-applicable * |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |

Flammability:

| | |
|---------------------------|---------------|
| Flash Point: | 38 °C |
| Autoignition temperature: | 275 °C |
| Lower flammability limit: | Not available |
| Upper flammability limit: | Not available |

9.2 Other information:

| | |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index: | Non-applicable * |

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. 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 | Combustive materials | Combustible materials | Others |
|----------------|----------------|----------------------|-----------------------|----------------|
| Not applicable | Not applicable | Avoid direct impact | Avoid direct impact | Not applicable |

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

Dangerous health implications:

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

A.- Ingestion:

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.

B- Inhalation:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

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SECTION 11: TOXICOLOGICAL INFORMATION (continue)

C- Contact with the skin and the eyes:

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.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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.

E- Sensitizing effects:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with sensitizing effects. For more information see section 3.

F- Specific target organ toxicity (STOT)-time exposure:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

G- Specific target organ toxicity (STOT)-repeated exposure:

Serious health effects in the case of prolonged consumption, including death, serious functional disorders or morphological changes of toxicological importance.

H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|--|-----------------|----------------|--------|
| Naphtha (petroleum), hydrodesulfurized heavy, < 0.1 % EC 200-753-7 CAS: 64742-82-1 EC: 265-185-4 | LD50 oral | 5100 mg/kg | Rat |
| | LD50 dermal | 3160 mg/kg | Rabbit |
| | LC50 inhalation | 12 mg/L (4 h) | Rat |
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | LD50 oral | 2100 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg | Rat |
| | LC50 inhalation | 11 mg/L (4 h) | Rat |
| Zinc oxide CAS: 1314-13-2 EC: 215-222-5 | LD50 oral | 7950 mg/kg | Mouse |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| Butanone oxime CAS: 96-29-7 EC: 202-496-6 | LD50 oral | 2100 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg | Rat |
| | LC50 inhalation | Non-applicable | |
| Naphthalene CAS: 91-20-3 EC: 202-049-5 | LD50 oral | 500 mg/kg | Rat |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

| Identification | Acute toxicity | Specie | Genus |
|---|----------------|---------------------|-------------------------------|
| Naphtha (petroleum), hydrodesulfurized heavy, < 0.1 % EC 200-753-7 CAS: 64742-82-1 EC: 265-185-4 | LC50 | Non-applicable | |
| | EC50 | 4,3 mg/L (96 h) | Crangon crangon Crustacean |
| | EC50 | Non-applicable | |
| Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) CAS: Non-applicable EC: 919-446-0 | LC50 | 1 - 10 mg/L (96 h) | Fish |
| | EC50 | 1 - 10 mg/L | Crustacean |
| | EC50 | 1 - 10 mg/L | Alga |
| trizinc bis(orthophosphate) CAS: 7779-90-0 EC: 231-944-3 | LC50 | 0,1 - 1 mg/L (96 h) | Fish |
| | EC50 | 0,1 - 1 mg/L | Crustacean |
| | EC50 | 0,1 - 1 mg/L | Alga |

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SECTION 12: ECOLOGICAL INFORMATION (continue)

| Identification | Acute toxicity | Specie | Genus | |
|--|----------------|---------------------|-------------------------|------------|
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | LC50 | 13,5 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| | EC50 | 0,6 mg/L (96 h) | Gammarus lacustris | Crustacean |
| | EC50 | 10 mg/L (72 h) | Skeletonema costatum | Alga |
| Zinc oxide CAS: 1314-13-2 EC: 215-222-5 | LC50 | 0,82 mg/L (96 h) | Oncorhynchus kisutch | Fish |
| | EC50 | 3,4 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | Non-applicable | | |
| Butanone oxime CAS: 96-29-7 EC: 202-496-6 | LC50 | 843 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 750 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 83 mg/L (72 h) | Scenedesmus subspicatus | Alga |
| Naphthalene CAS: 91-20-3 EC: 202-049-5 | LC50 | 0,1 - 1 mg/L (96 h) | | Fish |
| | EC50 | 0,1 - 1 mg/L | | Crustacean |
| | EC50 | 0,1 - 1 mg/L | | Alga |

12.2 Persistence and degradability:

| Identification | Degradability | Biodegradability |
|---|---------------|------------------|
| Butanone oxime CAS: 96-29-7 EC: 202-496-6 | BOD5 | Non-applicable |
| | COD | Non-applicable |
| | BOD5/COD | Non-applicable |
| Naphthalene CAS: 91-20-3 EC: 202-049-5 | BOD5 | Non-applicable |
| | COD | Non-applicable |
| | BOD5/COD | Non-applicable |

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|--|---------------------------|------|
| Naphtha (petroleum), hydrodesulfurized heavy, < 0.1 % EC 200-753-7 CAS: 64742-82-1 EC: 265-185-4 | BCF | 645 |
| | Pow Log | 4 |
| | Potential | High |
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | BCF | 9 |
| | Pow Log | 2,77 |
| | Potential | Low |
| Butanone oxime CAS: 96-29-7 EC: 202-496-6 | BCF | 5 |
| | Pow Log | 0,59 |
| | Potential | Low |
| Naphthalene CAS: 91-20-3 EC: 202-049-5 | BCF | 168 |
| | Pow Log | 3,3 |
| | Potential | High |

12.4 Mobility in soil:

| Identification | Absorption/desorption | Volatility |
|--|-----------------------|-----------------------|
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | Koc | 202 |
| | Conclusion | Moderate |
| | Surface tension | Non-applicable |
| Butanone oxime CAS: 96-29-7 EC: 202-496-6 | Koc | 3 |
| | Conclusion | Very High |
| | Surface tension | 25700 N/m (25 °C) |
| Naphthalene CAS: 91-20-3 EC: 202-049-5 | Koc | 817 |
| | Conclusion | Moderate |
| | Surface tension | 13060 N/m (277,74 °C) |

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described



SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Directive 2008/98/EC) |
|-----------|---|------------------------------------|
| 08 01 11* | Waste paint and varnish containing organic solvents or other dangerous substances | Dangerous |

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 (2000/532/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 recommend disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC; Commission Decision of 3 May 2000

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2013 and RID 2013:



- 14.1 UN number:** UN1263
- 14.2 UN proper shipping name:** PAINT
- 14.3 Transport hazard class(es):** 3
Labels: 3
- 14.4 Packing group:** III
- 14.5 Dangerous for the environment:** Yes
- 14.6 Special precautions for user**
Special regulations: 163, 640E, 650
Tunnel restriction code: D/E
Physico-Chemical properties: see section 9
Limited quantities: 5 L
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 36-12:



- 14.1 UN number:** UN1263
- 14.2 UN proper shipping name:** PAINT
- 14.3 Transport hazard class(es):** 3
Labels: 3
- 14.4 Packing group:** III
- 14.5 Dangerous for the environment:** Yes
- 14.6 Special precautions for user**
Special regulations: 163, 223, 944, 955
EmS Codes: F-E, S-E
Physico-Chemical properties: see section 9
Limited quantities: 5 L
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2014:



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SECTION 14: TRANSPORT INFORMATION (continue)



| | |
|---|----------------|
| 14.1 UN number: | UN1263 |
| 14.2 UN proper shipping name: | PAINT |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group: | III |
| 14.5 Dangerous for the environment: | Yes |
| 14.6 Special precautions for user | |
| Physico-Chemical properties: | see section 9 |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | 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) 1907/2006 (REACH): Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Naphthalene (excluded for the product type 19)

Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

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

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Non-applicable

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:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

Modifications related to the previous security card which concerns the ways of managing risks. :

Directive 67/548/EC and Directive 1999/45/EC:

- R Phrases
- S Phrases

CLP Regulation (EC) n° 1272/2008:

- Hazard statements
- Precautionary statements

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SECTION 16: OTHER INFORMATION (continue)

Text of R-phrases considered 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

Directive 67/548/EC and Directive 1999/45/EC:

- R10: Flammable
- R20/21: Harmful by inhalation and in contact with skin
- R21: Harmful in contact with skin
- R22: Harmful if swallowed
- R38: Irritating to skin
- R40: Limited evidence of a carcinogenic effect
- R41: Risk of serious damage to eyes
- R43: May cause sensitisation by skin contact
- R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation
- R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R65: Harmful: may cause lung damage if swallowed
- R66: Repeated exposure may cause skin dryness or cracking
- R67: Vapours may cause drowsiness and dizziness

CLP Regulation (EC) n° 1272/2008:

- Acute Tox. 4: H302 - Harmful if swallowed
- Acute Tox. 4: H312 - Harmful in contact with skin
- 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
- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
- Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
- Carc. 2: H351 - Suspected of causing cancer
- Eye Dam. 1: H318 - Causes serious eye damage
- Flam. Liq. 3: H226 - Flammable liquid and vapour
- Skin Irrit. 2: H315 - Causes skin irritation
- Skin Sens. 1: H317 - May cause an allergic skin reaction
- STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure
- STOT SE 3: H336 - May cause drowsiness or dizziness

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

- <http://esis.jrc.ec.europa.eu>
- <http://echa.europa.eu>
- <http://eur-lex.europa.eu>

Abbreviations and acronyms:

- 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
- CL50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol-water partition coefficient
- Koc: Partition coefficient of organic carbon

The information contained in this security 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 security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -