



867 - GALVANIC PRIMER

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

- 1.1 Product identifier:** 867 - GALVANIC PRIMER
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Printing . For industrial user only.
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 21-23
08820 El Prat de Llobregat - Barcelona - España
Phone.: +34 934 797 494 -
Fax: +34 934 797 495
msds@titanlux.es
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.

Acute Tox. 4: Acute toxicity, Category 4, H312+H332

Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410

Asp. Tox. 1: Aspiration hazard, Category 1, H304

Flam. Liq. 3: Flammable liquids, Category 3, H226

2.2 Label elements:

CLP Regulation (EC) nº 1272/2008:

Danger



Hazard statements:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled

Aquatic Chronic 1: H410 - Very 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

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor

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

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.

P403+P235: Store in a well-ventilated place. Keep cool

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking

EUH208: Contains Acidos grasos C18, Insatd., dímeros, productos de reacción con N,N-dimetil-1,3-propanodiamina y 1,3-propanodiamina. May produce an allergic reaction

Substances that contribute to the classification

Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics; Xylene (mixture of isomers); Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7

2.3 Other hazards:

** Changes with regards to the previous version

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867 - GALVANIC PRIMER

SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Non-applicable

** 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) n°1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | Concentration |
|---|---|---------------------------------|
| CAS: 7440-66-6 EC: 231-175-3 Index: 030-002-00-7 REACH: 01-2119467174-37-XXXX | Zinc powder - zinc dust (stabilised) Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning | ATP CLP00 25 - <50 % |
| CAS: 1314-13-2 EC: 215-222-5 Index: 030-013-00-7 REACH: 01-2119463881-32-XXXX | Zinc oxide Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning | ATP CLP00 15 - <20 % |
| CAS: Non-applicable EC: 919-857-5 Index: Non-applicable REACH: 01-2119463258-33-XXXX | Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics Regulation 1272/2008 Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Danger | Self-classified 12,5 - <15 % |
| CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32-XXXX | Xylene (mixture of isomers) Regulation 1272/2008 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 | Self-classified 7,5 - <10 % |
| CAS: 162627-17-0 EC: 605-296-0 Index: Non-applicable REACH: 01-2119970640-38-XXXX | Acidos grasos C18, Insatd., dímeros, productos de reacción con N,N-dimetil-1,3-propanodiamina y 1,3-propanodiamina Regulation 1272/2008 Skin Sens. 1: H317 - Warning | Self-classified 0,1 - <0,2 % |
| CAS: 107-98-2 EC: 203-539-1 Index: 603-064-00-3 REACH: 01-2119457435-35-XXXX | 1-methoxy-2-propanol Regulation 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336 - Warning | ATP ATP01 0,05 - <0,1 % |

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 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, as 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.

- CONTINUED ON NEXT PAGE -



867 - GALVANIC PRIMER

SECTION 4: FIRST AID MEASURES (continued)

By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. 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 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 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.

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 inertization 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

- CONTINUED ON NEXT PAGE -



867 - GALVANIC PRIMER

SECTION 7: HANDLING AND STORAGE (continued)

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.: 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):

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

| Identification | Environmental limits | | |
|--|----------------------|-----------------------|------|
| | IOELV (8h) | IOELV (STEL) | Year |
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | 50 ppm | 221 mg/m ³ | 2015 |
| | 100 ppm | 442 mg/m ³ | |
| | | | |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | 100 ppm | 375 mg/m ³ | |
| | 150 ppm | 563 mg/m ³ | |
| | 2015 | | |

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|---|------------|-----------------------|-------------------------|------------------------|----------------|
| | | Systemic | Local | Systemic | Local |
| Zinc powder - zinc dust (stabilised) CAS: 7440-66-6 EC: 231-175-3 | 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 |
| 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 |
| Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics CAS: Non-applicable EC: 919-857-5 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 300 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 1500 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 |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 50,6 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | 553,5 mg/m ³ | 369 mg/m ³ | Non-applicable |

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867 - GALVANIC PRIMER

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|---|------------|----------------|----------------|------------------------|----------------|
| | | Systemic | Local | Systemic | Local |
| Zinc powder - zinc dust (stabilised) CAS: 7440-66-6 EC: 231-175-3 | 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 |
| 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 |
| Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics CAS: Non-applicable EC: 919-857-5 | Oral | Non-applicable | Non-applicable | 300 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 300 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 900 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 |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | Oral | Non-applicable | Non-applicable | 3,3 mg/kg | Non-applicable |
| | Dermal | Non-applicable | Non-applicable | 18,1 mg/kg | Non-applicable |
| | Inhalation | Non-applicable | Non-applicable | 43,9 mg/m ³ | Non-applicable |

PNEC:

| Identification | | | | |
|---|--------------|----------------|-------------------------|-------------|
| Zinc powder - zinc dust (stabilised) CAS: 7440-66-6 EC: 231-175-3 | 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 |
| 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 |
| 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 |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | STP | 100 mg/L | Fresh water | 10 mg/L |
| | Soil | 5,49 mg/kg | Marine water | 1 mg/L |
| | Intermittent | 100 mg/L | Sediment (Fresh water) | 52,3 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 5,2 mg/kg |



8.2 Exposure controls:

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

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<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 more 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 405:2001+A1:2009 | Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected. |



C.- Specific protection for the hands

- CONTINUED ON NEXT PAGE -





867 - GALVANIC PRIMER

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)





| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|---|---|---|--|
|  Mandatory hand protection | NON-disposable chemical protective gloves |  | 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. |

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

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|--|-----------|---|---|---|
|  Mandatory face protection | Face mask |  | EN 166:2001 EN 167:2001 EN 168:2001 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 |  | 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. |
|  Mandatory foot protection | Safety footwear for protection against chemical risk, with antistatic and heat resistant properties |  | EN 13287:2008 EN ISO 20345:2011 EN 13832-1:2006 | 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

Volatile organic compounds:

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

| | |
|---------------------------|---------------------------------------|
| V.O.C. (Supply): | 22,46 % weight |
| V.O.C. density at 20 °C: | 465,75 kg/m ³ (465,75 g/L) |
| Average carbon number: | 9,15 |
| Average molecular weight: | 129,16 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: | Liquid |
| Appearance: | Viscous |
| Colour: | Grey |

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

- CONTINUED ON NEXT PAGE -



867 - GALVANIC PRIMER

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|--|------------------------|
| Odour: | Characteristic |
| Odour threshold: | Non-applicable * |
| Volatility: | |
| Boiling point at atmospheric pressure: | 154 °C |
| Vapour pressure at 20 °C: | 475 Pa |
| Vapour pressure at 50 °C: | 2977 Pa (3 kPa) |
| Evaporation rate at 20 °C: | Non-applicable * |
| Product description: | |
| Density at 20 °C: | 2074 kg/m ³ |
| Relative density at 20 °C: | 2,074 |
| Dynamic viscosity at 20 °C: | 3,1 cP |
| Kinematic viscosity at 20 °C: | 1,5 cSt |
| Kinematic viscosity at 40 °C: | <20,5 cSt |
| 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 * |
| Explosive properties: | Non-applicable * |
| Oxidising properties: | Non-applicable * |
| Flammability: | |
| Flash Point: | 38 °C |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature: | 270 °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 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 |

- CONTINUED ON NEXT PAGE -



867 - GALVANIC PRIMER

SECTION 10: STABILITY AND REACTIVITY (continued)

10.5 Incompatible materials:

| Acids | Water | Combustive materials | Combustible materials | Others |
|--------------------|----------------|----------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

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. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

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 (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain 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 : Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: 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.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, may have harmful effects for health if the product is absorbed through the skin. For more information on the secondary effects of contact with the skin see section 2.
- Contact with the eyes: 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.

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

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- 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, however, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

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

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.

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

- Specific target organ toxicity (STOT)-repeated exposure: 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.
- Skin: Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

The consumption of a considerable dose can cause pulmonary damage.

Other information:

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



867 - GALVANIC PRIMER

SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Non-applicable

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|---|-----------------|----------------------|-------|
| | LD50 oral | LD50 dermal | |
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | LD50 oral | 2100 mg/kg | Rat |
| | LD50 dermal | 1100 mg/kg (ATEi) | Rat |
| | LC50 inhalation | 11 mg/L (4 h) (ATEi) | |
| Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics CAS: Non-applicable EC: 919-857-5 | LD50 oral | 5100 mg/kg | Rat |
| | LD50 dermal | Non-applicable | |
| | LC50 inhalation | Non-applicable | |
| Zinc oxide CAS: 1314-13-2 EC: 215-222-5 | LD50 oral | 7950 mg/kg | Mouse |
| | LD50 dermal | Non-applicable | |
| | 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 |
|---|----------------|---------------------|---------------------------|------------|
| | LC50 | EC50 | | |
| Zinc powder - zinc dust (stabilised) CAS: 7440-66-6 EC: 231-175-3 | LC50 | 0.1 - 1 mg/L (96 h) | | Fish |
| | EC50 | 0.1 - 1 mg/L | | Crustacean |
| | EC50 | 0.1 - 1 mg/L | | Algae |
| 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 | | |
| 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 | Algae |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | LC50 | 20800 mg/L (96 h) | Pimephales promelas | Fish |
| | EC50 | 23300 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 1000 mg/L (168 h) | Selenastrum capricornutum | Algae |

12.2 Persistence and degradability:

| Identification | Degradability | | Biodegradability | |
|---|---------------|----------------|------------------|----------------|
| | BOD5 | COD | Concentration | Period |
| Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics CAS: Non-applicable EC: 919-857-5 | BOD5 | Non-applicable | Concentration | Non-applicable |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 80 % |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | BOD5 | Non-applicable | Concentration | 100 mg/L |
| | COD | Non-applicable | Period | 28 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 90 % |

12.3 Bioaccumulative potential:

| Identification | Bioaccumulation potential | |
|--|---------------------------|---------|
| | BCF | Pow Log |
| Xylene (mixture of isomers) CAS: 1330-20-7 EC: 215-535-7 | BCF | 9 |
| | Pow Log | 2.77 |
| | Potential | Low |
| 1-methoxy-2-propanol CAS: 107-98-2 EC: 203-539-1 | BCF | 3 |
| | Pow Log | -0.44 |
| | Potential | Low |

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



867 - GALVANIC PRIMER

SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Non-applicable

12.6 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|--|
| 08 01 11* | Waste paint and varnish containing organic solvents or other dangerous substances | Dangerous |

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

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP3 Flammable

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 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, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2015 and RID 2015:



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, 367, 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 and the IBC Code: Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

- CONTINUED ON NEXT PAGE -



867 - GALVANIC PRIMER

SECTION 14: TRANSPORT INFORMATION (continued)



- 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, 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 and the IBC Code: Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2017:



- 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 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

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

Regulation (EC) 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

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

- CONTINUED ON NEXT PAGE -



867 - GALVANIC PRIMER

SECTION 15: REGULATORY INFORMATION (continued)

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.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

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 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:

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:

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° 2015/830)

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

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclics, <2% aromatics
- Removed substances
Naphtha (petroleum), < 0.1 % EC 200-753-7 (64742-48-9)

CLP Regulation (EC) n° 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements
- Precautionary statements

Content of the 3rd section presenting modifications (SECTION 3):

- Zinc powder - zinc dust (stabilised) (7440-66-6): R Phrases, REACH Number
- Acidos grasos C18, Insatd., dímeros, productos de reacción con N,N-dimetil-1,3-propanodiamina y 1,3-propanodiamina (162627-17-0): REACH Number

Texts of the legislative phrases mentioned in section 2:

H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects
H312+H332: Harmful in contact with skin or if inhaled
H304: May be fatal if swallowed and enters airways
H226: Flammable liquid and vapour

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) n° 1272/2008:

** Changes with regards to the previous version



867 - GALVANIC PRIMER

SECTION 16: OTHER INFORMATION ** (continued)

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
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
Eye Irrit. 2: H319 - Causes serious eye irritation
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 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:

Aquatic Acute 1: Calculation method
Aquatic Chronic 1: Calculation method
Acute Tox. 4: Calculation method
Asp. Tox. 1: Calculation method
Flam. Liq. 3: Calculation method (2.6.4.3)

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
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.

- END OF SAFETY DATA SHEET -