

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

# 1.1 Product identifier: 815 - RUST PREVENTIVE ENAMEL 815

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

Relevant uses: Enamel. 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 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.

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412 Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315 STOT RE 2: Specific target organ toxicity if swallowed, repeated exposure, Category 2, H373 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

### 2.2 Label elements:

#### CLP Regulation (EC) nº 1272/2008:

Warning



### Hazard statements:

Acute Tox. 4: H332 - Harmful if inhaled Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 3: H226 - Flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral) STOT SE 3: H335 - May cause respiratory irritation

### **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 P302+P352: IF ON SKIN: Wash with plenty of water P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P370+P378: In case of fire: Use ABC powder extinguisher to extinguish. P403+P233: Store in a well-ventilated place. Keep container tightly closed P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively **Supplementary information:** 

EUH208: Contains Butanone oxime, Cobalt bis(2-ethylhexanoate). May produce an allergic reaction

\*\* Changes with regards to the previous version



# SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

### Substances that contribute to the classification

Xylene; Hydrocarbons, C9, aromatics (Benzene < 0.1 % w/w)

### 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) nº1907/2006 (point 3), the product contains:

Identification		Chemical name/Classification		Concentration
CAS: 1330-20-7 EC: 215-535-7	Xylene 1		Self-classified	
EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32-XXXX	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 RE2: H373; STOT SE 3: H335 - Danger	1000	20 - <25 %
CAS: 64742-95-6	Hydrocarbons, C9, ar	omatics (Benzene < 0.1 % w/w) 1	Self-classified	
EC: 918-668-5 Index: Non-applicable REACH: 01-2119455851-35-XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; STOT SE 3: H336; EUH066 - Danger		7,5 - <10 %
CAS: 64742-88-7	Solvent naphtha (pet	roleum), medium aliph. <sup>2</sup>	ATP ATP05	
EC: 265-191-7 Index: 649-405-00-X REACH: 01-2119537181-47-XXXX	Regulation 1272/2008	Asp. Tox. 1: H304; STOT RE 1: H372 - Danger	٨	0,4 - <0,5 %
CAS: 96-29-7	Butanone oxime 1		ATP CLP00	
EC: 202-496-6 Index: 616-014-00-0 REACH: 01-2119539477-28-XXXX	Regulation 1272/2008	Acute Tox. 4: H312; Carc. 2: H351; Eye Dam. 1: H318; Skin Sens. 1: H317 - Danger	♦♦♦	0,2 - <0,3 %
CAS: 22464-99-9 EC: 245-018-1	2-ethylhexanoic acid,	zirconium salt 1	Self-classified	
EC: 245-018-1 Index: Non-applicable REACH: 01-2119979088-21-XXXX	Regulation 1272/2008	Repr. 2: H361d - Warning	٨	0,1 - <0,2 %
CAS: 136-52-7	Cobalt bis(2-ethylhex	anoate) <sup>1</sup>	Self-classified	
EC: 205-250-6 Index: Non-applicable REACH: 01-2119524678-29-XXXX	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Repr. 2: H3 Skin Sens. 1A: H317 - Warning	<sup>61;</sup> 🗘 🌢 🏠	0,03 - <0,04 %
CAS: 107-98-2	1-methoxy-2-propan	ol ²	ATP ATP01	
EC: 203-539-1 Index: 603-064-00-3 REACH: 01-2119457435-35-XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336 - Warning	۞۞	0,03 - <0,04 %
CAS: 108-65-6	2-methoxy-1-methyl	ethyl acetate <sup>2</sup>	ATP ATP01	
EC: 203-603-9 Index: 607-195-00-7 REACH: 01-2119475791-29-XXXX	Regulation 1272/2008	Flam. Liq. 3: H226 - Warning	٨	<0,01 %

<sup>1</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830
<sup>2</sup> Substance with a Union workplace exposure limit

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:** 



### SECTION 4: FIRST AID MEASURES (continued)

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 water for at least 15 minutes. 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.

#### 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:

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:



# SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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.:	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		
Xylene	IOELV (8h)	50 ppm	221 mg/m <sup>3</sup>	
CAS: 1330-20-7	IOELV (STEL)	100 ppm	442 mg/m <sup>3</sup>	
EC: 215-535-7	Year	2017		
Solvent naphtha (petroleum), medium aliph.	IOELV (8h)			
CAS: 64742-88-7	IOELV (STEL)			
EC: 265-191-7	Year	2017		
1-methoxy-2-propanol	IOELV (8h)	100 ppm	375 mg/m <sup>3</sup>	
CAS: 107-98-2	IOELV (STEL)	150 ppm	563 mg/m <sup>3</sup>	
EC: 203-539-1	Year	2017		
2-methoxy-1-methylethyl acetate	IOELV (8h)	50 ppm	275 mg/m <sup>3</sup>	
CAS: 108-65-6	IOELV (STEL)	100 ppm	550 mg/m <sup>3</sup>	
EC: 203-603-9	Year	2017		



### Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	289 mg/m <sup>3</sup>	289 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>	Non-applicable
Hydrocarbons, C9, aromatics (Benzene < 0.1 % w/w)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64742-95-6	Dermal	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
EC: 918-668-5	Inhalation	Non-applicable	Non-applicable	150 mg/m <sup>3</sup>	Non-applicable
Butanone oxime	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 96-29-7	Dermal	2,5 mg/kg	Non-applicable	1,3 mg/kg	Non-applicable
EC: 202-496-6	Inhalation	Non-applicable	Non-applicable	9 mg/m <sup>3</sup>	3,33 mg/m <sup>3</sup>
2-ethylhexanoic acid, zirconium salt	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 22464-99-9	Dermal	Non-applicable	Non-applicable	15,75 mg/kg	Non-applicable
EC: 245-018-1	Inhalation	Non-applicable	Non-applicable	5 mg/m <sup>3</sup>	Non-applicable
Cobalt bis(2-ethylhexanoate)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 136-52-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 205-250-6	Inhalation	Non-applicable	Non-applicable	Non-applicable	0,2351 mg/m <sup>3</sup>
1-methoxy-2-propanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 107-98-2	Dermal	Non-applicable	Non-applicable	50,6 mg/kg	Non-applicable
EC: 203-539-1	Inhalation	Non-applicable	553,5 mg/m <sup>3</sup>	369 mg/m <sup>3</sup>	Non-applicable
2-methoxy-1-methylethylacetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	153,5 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	Non-applicable	275 mg/m <sup>3</sup>	Non-applicable

# DNEL (General population):

		Short	Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local	
Xylene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable	
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable	
EC: 215-535-7	Inhalation	Non-applicable	Non-applicable	14,8 mg/m <sup>3</sup>	Non-applicable	
Hydrocarbons, C9, aromatics (Benzene < 0.1 % w/w)	Oral	Non-applicable	Non-applicable	11 mg/kg	Non-applicable	
CAS: 64742-95-6	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable	
EC: 918-668-5	Inhalation	Non-applicable	Non-applicable	32 mg/m <sup>3</sup>	Non-applicable	
Butanone oxime	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 96-29-7	Dermal	1,5 mg/kg	Non-applicable	0,78 mg/kg	Non-applicable	
EC: 202-496-6	Inhalation	Non-applicable	Non-applicable	2,7 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	
2-ethylhexanoic acid, zirconium salt	Oral	Non-applicable	Non-applicable	7,9 mg/kg	Non-applicable	
CAS: 22464-99-9	Dermal	Non-applicable	Non-applicable	7,9 mg/kg	Non-applicable	
EC: 245-018-1	Inhalation	Non-applicable	Non-applicable	2,5 mg/m <sup>3</sup>	Non-applicable	
Cobalt bis(2-ethylhexanoate)	Oral	Non-applicable	Non-applicable	0,0558 mg/kg	Non-applicable	
CAS: 136-52-7	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
EC: 205-250-6	Inhalation	Non-applicable	Non-applicable	Non-applicable	0,037 mg/m <sup>3</sup>	
1-methoxy-2-propanol	Oral	Non-applicable	Non-applicable	3,3 mg/kg	Non-applicable	
CAS: 107-98-2	Dermal	Non-applicable	Non-applicable	18,1 mg/kg	Non-applicable	
EC: 203-539-1	Inhalation	Non-applicable	Non-applicable	43,9 mg/m <sup>3</sup>	Non-applicable	
2-methoxy-1-methylethylacetate	Oral	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable	
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	54,8 mg/kg	Non-applicable	
EC: 203-603-9	Inhalation	Non-applicable	Non-applicable	33 mg/m <sup>3</sup>	Non-applicable	

PNEC:

Identification				
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



# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Butanone oxime	STP	177 mg/L	Fresh water	0,256 mg/L
CAS: 96-29-7	Soil	Non-applicable	Marine water	Non-applicable
EC: 202-496-6	Intermittent	0,118 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	Non-applicable	Sediment (Marine water)	Non-applicable
2-ethylhexanoic acid, zirconium salt	STP	71,7 mg/L	Fresh water	0,36 mg/L
CAS: 22464-99-9	Soil	1,06 mg/kg	Marine water	0,036 mg/L
EC: 245-018-1	Intermittent	0,493 mg/L	Sediment (Fresh water)	6,37 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,637 mg/kg
Cobalt bis(2-ethylhexanoate)	STP	0,37 mg/L	Fresh water	0,00051 mg/L
CAS: 136-52-7	Soil	7,9 mg/kg	Marine water	0,00236 mg/L
EC: 205-250-6	Intermittent	Non-applicable	Sediment (Fresh water)	9,5 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	9,5 mg/kg
1-methoxy-2-propanol	STP	100 mg/L	Fresh water	10 mg/L
CAS: 107-98-2	Soil	5,49 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
2-methoxy-1-methylethylacetate	STP	100 mg/L	Fresh water	0,635 mg/L
CAS: 108-65-6	Soil	0,29 mg/kg	Marine water	0,0635 mg/L
EC: 203-603-9	Intermittent	6,35 mg/L	Sediment (Fresh water)	3,29 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,329 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 resistence to breathing is observed and/or a smell or taste of the contaminant is detected.

### C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.

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

Mandatory face Panoramic gasses against splash/projections. Splash/projections. Use if there is a risk of splashing. the manufacturer's instructions. Use if there is a risk of splashing.	Pictogram	PPE	Labelling	CEN Standard	Remarks
protection			CATI		



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory complete body protection	Antistatic and fireproof protective clothing		EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2001 EN ISO 14116:2015 EN 1149-5:2008	Limited protection against flames.
Mandatory foot protection	Safety footwear with antistatic and heat resistant properties		EN 13287:2008 EN ISO 20345:2011	Replace boots at any sign of deterioration.

#### F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
<b>_</b>	ANSI Z358-1 ISO 3864-1:2002		DIN 12 899 ISO 3864-1:2002
Emergency shower		Eyewash stations	

### **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:

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

V.O.C. (Supply):	34,17 % weight
V.O.C. density at 20 °C:	410,03 kg/m <sup>3</sup> (410,03 g/L)
Average carbon number:	8,27
Average molecular weight:	110,82 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:	White
Odour:	Characteristic
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	144 °C
Vapour pressure at 20 °C:	598 Pa
Vapour pressure at 50 °C:	3357 Pa (3 kPa)
Evaporation rate at 20 °C:	Non-applicable *
Product description:	
Density at 20 °C:	1170 - 1230 kg/m³
Relative density at 20 °C:	1,17 - 1,23
Dynamic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	>20,5 cSt
Concentration:	Non-applicable *
*Not relevant due to the nature of the product, not providing inform	mation property of its hazards.



SECTION 9: PHYSICAL AND CHEMICAL PROPERT	TES (continued)	
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:	27 °C	
Flammability (solid, gas):	Non-applicable *	
Autoignition temperature:	230 °C	
Lower flammability limit:	Not available	
Upper flammability limit:	Not available	
Explosive:		
Lower explosive limit:	Non-applicable *	
Upper explosive limit:	Non-applicable *	
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	j 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
10.5	Incompatible materials:				
	Acids	Water	Combustive materials	Combustible materials	Others

### **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:

\*\* Changes with regards to the previous version



### SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- 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: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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

- 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, however it does 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:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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

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

- Skin: 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.

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:

Non-applicable

### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Xylene	LD50 oral	2100 mg/kg	Rat
CAS: 1330-20-7	LD50 dermal	1100 mg/kg (ATEi)	Rat
EC: 215-535-7	LC50 inhalation	11 mg/L (4 h) (ATEi)	

\*\* Changes with regards to the previous version



# SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

Identification	Ac	Acute toxicity		
Solvent naphtha (petroleum), medium aliph.	LD50 oral	5100 mg/kg	Rat	
CAS: 64742-88-7	LD50 dermal	Non-applicable		
EC: 265-191-7	LC50 inhalation	Non-applicable		
Butanone oxime	LD50 oral	2100 mg/kg	Rat	
CAS: 96-29-7	LD50 dermal	1100 mg/kg	Rat	
EC: 202-496-6	LC50 inhalation	Non-applicable		
2-ethylhexanoic acid, zirconium salt	LD50 oral	2043 mg/kg	Rat	
CAS: 22464-99-9	LD50 dermal	Non-applicable		
EC: 245-018-1	LC50 inhalation	Non-applicable		
2-methoxy-1-methylethyl acetate	LD50 oral	8532 mg/kg	Rat	
CAS: 108-65-6	LD50 dermal	5100 mg/kg	Rat	
EC: 203-603-9	LC50 inhalation	30 mg/L (4 h)	Rat	

\*\* 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
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
Hydrocarbons, C9, aromatics (Benzene < 0.1 % w/w)	LC50	1 - 10 mg/L (96 h)		Fish
CAS: 64742-95-6	EC50	1 - 10 mg/L		Crustacear
EC: 918-668-5	EC50	1 - 10 mg/L		Algae
Solvent naphtha (petroleum), medium aliph.	LC50	800 mg/L (96 h)	Salmo gairdneri	Fish
CAS: 64742-88-7	EC50	100 mg/L (48 h)	Daphnia magna	Crustacea
EC: 265-191-7	EC50	450 mg/L (96 h)	Selenastrum capricornutum	Algae
Butanone oxime	LC50	843 mg/L (96 h)	Pimephales promelas	Fish
CAS: 96-29-7	EC50	750 mg/L (48 h)	Daphnia magna	Crustacea
EC: 202-496-6	EC50	83 mg/L (72 h)	Scenedesmus subspicatus	Algae
2-ethylhexanoic acid, zirconium salt	LC50	270 mg/L (96 h)	N/A	Fish
CAS: 22464-99-9	EC50	Non-applicable		
EC: 245-018-1	EC50	Non-applicable		
Cobalt bis(2-ethylhexanoate)	LC50	0.1 - 1 mg/L (96 h)		Fish
CAS: 136-52-7	EC50	0.1 - 1 mg/L		Crustacea
EC: 205-250-6	EC50	0.1 - 1 mg/L		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	Crustacea
EC: 203-539-1	EC50	1000 mg/L (168 h)	Selenastrum capricornutum	Algae
2-methoxy-1-methylethylacetate	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
CAS: 108-65-6	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacea
EC: 203-603-9	EC50	Non-applicable		

### 12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
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 %
Butanone oxime	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 96-29-7	COD	Non-applicable	Period	28 days
EC: 202-496-6	BOD5/COD	Non-applicable	% Biodegradable	24 %

\*\* Changes with regards to the previous version



### Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU

# **815 - RUST PREVENTIVE ENAMEL 815**

# SECTION 12: ECOLOGICAL INFORMATION \*\* (continued)

Identification	Deg	radability	Biodegradability	
2-ethylhexanoic acid, zirconium salt	BOD5	Non-applicable	Concentration	20 mg/L
CAS: 22464-99-9	COD	Non-applicable	Period	28 days
EC: 245-018-1	BOD5/COD	Non-applicable	% Biodegradable	99 %
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 %
2-methoxy-1-methylethylacetate	BOD5	Non-applicable	Concentration	785 mg/L
CAS: 108-65-6	COD	Non-applicable	Period	8 days
EC: 203-603-9	BOD5/COD	Non-applicable	% Biodegradable	100 %

# 12.3 Bioaccumulative potential:

Identification	Bioad	cumulation potential
Xylene	BCF	9
CAS: 1330-20-7	Pow Log	2.77
EC: 215-535-7	Potential	Low
Solvent naphtha (petroleum), medium aliph.	BCF	
CAS: 64742-88-7	Pow Log	4.6
EC: 265-191-7	Potential	
Butanone oxime	BCF	5
CAS: 96-29-7	Pow Log	0.59
EC: 202-496-6	Potential	Low
2-ethylhexanoic acid, zirconium salt	BCF	
CAS: 22464-99-9	Pow Log	2.96
EC: 245-018-1	Potential	
1-methoxy-2-propanol	BCF	3
CAS: 107-98-2	Pow Log	-0.44
EC: 203-539-1	Potential	Low
2-methoxy-1-methylethyl acetate	BCF	1
CAS: 108-65-6	Pow Log	0.43
EC: 203-603-9	Potential	Low

# 12.4 Mobility in soil:

Identification	Absorpt	Absorption/desorption		ility
Xylene	Кос	202	Henry	524,86 Pa·m³/mol
CAS: 1330-20-7	Conclusion	Moderate	Dry soil	Yes
EC: 215-535-7	Surface tension	Non-applicable	Moist soil	Yes
Butanone oxime	Кос	3	Henry	Non-applicable
CAS: 96-29-7	Conclusion	Very High	Dry soil	Non-applicable
EC: 202-496-6	Surface tension	2,57E-2 N/m (25 °C)	Moist soil	Non-applicable
2-ethylhexanoic acid, zirconium salt	Кос	Non-applicable	Henry	2,94E-1 Pa·m³/mol
CAS: 22464-99-9	Conclusion	Non-applicable	Dry soil	Yes
EC: 245-018-1	Surface tension	Non-applicable	Moist soil	Yes

# 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:**

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



# SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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

HP14 Ecotoxic, HP3 Flammable, HP4 Irritant — skin irritation and eye damage, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity

### 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)  $n^{0}1907/2006$  (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 2017 and RID 2017:

	14.2 14.3	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group:	UN1263 PAINT 3 3 III		
3	14.5	Environmental hazards:	No		
	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 da	ngero	us goods by sea:			
With regard to IM	DG 38-	16:			
	14.1	UN number:	UN1263		
		UN proper shipping name:	PAINT		
, she	14.3	Transport hazard class(es):	3		
		Labels:	3		
	14.4	Packing group:	III		
3	14.5	Environmental hazards:	No		
×	14.6	Special precautions for user			
		Special regulations:	223, 955, 163, 367		
		EmS Codes:	F-E, S-E		
		Physico-Chemical properties:	see section 9		
		Limited quantities:	5 L		
	14.7	to Annex II of Marpol and the IBC Code:	Non-applicable		
Transport of dangerous goods by air:					
With regard to IATA/ICAO 2017:					



### 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	Environmental hazards:	No
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 ....):

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:

\*\* Changes with regards to the previous version



SECTION 16: OTHER INFORMATION **	(continued)
This safety data sheet has been designe Regulation (EC) № 1907/2006 (Regulati	d in accordance with ANNEX II-Guide to the compilation of safety data sheets of on (EC) Nº 2015/830)
Modifications related to the previou	is Safety Data Sheet which concerns the ways of managing risks.:
COMPOSITION/INFORMATION ON INGR	EDIENTS (SECTION 3, SECTION 11, SECTION 12):
· New declared substances	
Hydrocarbons, C9, aromatics (Ben	zene < 0.1 % w/w) (64742-95-6)
Solvent naphtha (petroleum), med	
2-ethylhexanoic acid, zirconium sa	
Cobalt bis(2-ethylhexanoate) (136	
· Removed substances	
2-butoxyethanol (111-76-2)	
, , ,	arom., < 0.1 % EC 200-753-7 (64742-95-6)
CLP Regulation (EC) nº 1272/2008 (SEC	
· Hazard statements	
<ul> <li>Precautionary statements</li> </ul>	
Texts of the legislative phrases me	ntioned in section 2:
H335: May cause respiratory irritation	
H412: Harmful to aquatic life with long la	isting effects
H315: Causes skin irritation	
	ugh prolonged or repeated exposure (Oral)
H332: Harmful if inhaled	
H226: Flammable liquid and vapour	
H319: Causes serious eye irritation	
Texts of the legislative phrases me	ntioned in section 3:
	e product itself; they are present merely for informative purposes and refer to the
individual components which appear in s	
CLP Regulation (EC) nº 1272/2008	
Acute Tox. 4: H312 - Harmful in contact	
Acute Tox. 4: H312 - Harmiul III contact Acute Tox. 4: H312+H332 - Harmful in c	
Aquatic Acute 1: H400 - Very toxic to aq	
Aquatic Chronic 2: H411 - Toxic to aquat	
Aquatic Chronic 2: 1411 - 10xic to aquat Aquatic Chronic 3: H412 - Harmful to aq	
Asp. Tox. 1: H304 - May be fatal if swall	
Carc. 2: H351 - Suspected of causing ca	
Eye Dam. 1: H318 - Causes serious eye	
Eye Irrit. 2: H319 - Causes serious eye in	
Flam. Liq. 3: H226 - Flammable liquid an	
Repr. 2: H361 - Suspected of damaging	•
Repr. 2: H361d - Suspected of damaging	
Skin Irrit. 2: H315 - Causes skin irritation	
Skin Sens. 1: H317 - May cause an allerg	ic skin reaction
Skin Sens. 1A: H317 - May cause an alle	
	rgans through prolonged or repeated exposure
	o organs through prolonged or repeated exposure (Oral)
STOT SE 3: H335 - May cause respirator	
STOT SE 3: H336 - May cause drowsines	s or dizziness
Classification procedure:	
STOT SE 3: Calculation method	
Aquatic Chronic 3: Calculation method	
Skin Irrit. 2: Calculation method	
STOT RE 2: Calculation method	
Acute Tox. 4: Calculation method	
Flam. Liq. 3: Calculation method (2.6.4.3	)
Eye Irrit. 2: Calculation method	
Advice related to training:	
Minimal training is recommended to prev	ent industrial risks for staff using this product, in order to facilitate their comprehension
and interpretation of this safety data she	
Principal bibliographical sources:	·
http://echa.europa.eu	
http://eur-lex.europa.eu	
Abbreviations and acronyms:	

<sup>\*\*</sup> Changes with regards to the previous version



# 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.