

According to 1907/2006/EC (REACH), 2015/830/EU (THIS SDS IS JUST FOR INFORMATIVE PURPOSE. THE SDS SHALL BE SUPPLIED IN AN OFFICIAL LANGUAGE OF THE COUNTRY WHERE THE PRODUCT IS PLACED ON THE MARKET)

# S2D - RUST PREVENTIVE OXIRON HAMMERED PAINT

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

## 1.1 Product identifier: S2D - RUST PREVENTIVE OXIRON HAMMERED PAINT

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

Relevant uses: Enamel

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

# 1.3 Details of the supplier of the safety data sheet:

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

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

# SECTION 2: HAZARDS IDENTIFICATION \*\*

# 2.1 Classification of the substance or mixture:

# CLP Regulation (EC) No 1272/2008:

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

Aerosol 1: Pressurised container: May burst if heated., H229

Aerosol 1: Flammable aerosols, Category 1, H222

Eye Irrit. 2: Eye irritation, Category 2, H319

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

# 2.2 Label elements:

# CLP Regulation (EC) No 1272/2008:

Danger



#### Hazard statements:

Aerosol 1: H229 - Pressurised container: May burst if heated Aerosol 1: H222 - Extremely flammable aerosol Eye Irrit. 2: H319 - Causes serious eye irritation STOT SE 3: H336 - May cause drowsiness or dizziness

#### Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

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

P211: Do not spray on an open flame or other ignition source

P251: Do not pierce or burn, even after use

P260: Do not breathe spray

P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F

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

# Substances that contribute to the classification

acetone; N-butyl acetate; 2-methoxy-1-methylethyl acetate; butan-1-ol

# Additional labeling:

Buildup of explosive mixtures possible without sufficient ventilation.

# 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

\*\* Changes with regards to the previous version

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Version: 4 (Replaced 3)



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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

#### 3.1 Substance:

Non-applicable

# 3.2 Mixture:

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

## Components:

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

	Identification		Chemical name/Classification			
CAS:	67-64-1	acetone <sup>(1)</sup>		ATP CLP00		
	200-662-2 606-001-00-8 I: 01-2119471330-49- XXXX Regulation 1272/2008		Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	(1) (1)	25 - <50 %	
CAS:	123-86-4	N-butyl acetate <sup>(1)</sup>		ATP CLP00		
EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29- XXXX		Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	(1) (8)	12,5 - <15 %	
CAS:	108-65-6	2-methoxy-1-methy	lethyl acetate <sup>(1)</sup>	Self-classified		
	203-603-9 607-195-00-7 01-2119475791-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336 - Warning	(1) (1)	2,5 - <5 %	
CAS:	123-42-2	4-hidroxi-4-metil-pe	ntanona <sup>(1)</sup>	Self-classified		
	204-626-7 603-016-00-1 Non-applicable	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 3: H226; STOT SE 3: H335 - Warning	(1)	2,5 - <5 %	
CAS:	71-36-3	butan-1-ol <sup>(1)</sup>		ATP CLP00		
	200-751-6 603-004-00-6 01-2119484630-38- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger	(1) (1) (2)	2 - <2,5 %	
CAS:	Non-applicable	Reaction mass of ethylbenzene and xylene <sup>(1)</sup>				
EC: Index: REACH:	905-588-0 Non-applicable 01-2119539452-40- 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 RE 2: H373; STOT SE 3: H335 - Danger	() () ()	2 - <2,5 %	

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

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

\*\* Changes with regards to the previous version

# SECTION 4: FIRST AID MEASURES

# 4.1 Description of first aid measures:

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

# By inhalation:

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

# By skin contact:

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

# By eye contact:

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

#### By ingestion/aspiration:



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# SECTION 4: FIRST AID MEASURES (continued)

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

#### Extinguishing media: 5.1

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

#### 5.2 Special hazards arising from the substance or mixture:

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

#### 5.3 Advice for firefighters:

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

# Additional provisions:

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

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

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

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

#### Methods and material for containment and cleaning up: 6.3

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.

#### **Reference to other sections:** 6.4

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



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# SECTION 7: HANDLING AND STORAGE (continued)

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

C.- Technical recommendations to prevent ergonomic and toxicological risks

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

- D.- Technical recommendations to prevent environmental risks
- It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

## 7.2 Conditions for safe storage, including any incompatibilities:

A Technical measures for	or 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 workplace

Identification	Occu	oational exposure lin	nits
acetone	IOELV (8h)	500 ppm	1210 mg/m <sup>3</sup>
CAS: 67-64-1 EC: 200-662-2	IOELV (STEL)		
N-butyl acetate	IOELV (8h)	50 ppm	241 mg/m <sup>3</sup>
CAS: 123-86-4 EC: 204-658-1	IOELV (STEL)	150 ppm	723 mg/m <sup>3</sup>
2-methoxy-1-methylethyl acetate	IOELV (8h)	50 ppm	275 mg/m <sup>3</sup>
CAS: 108-65-6 EC: 203-603-9	IOELV (STEL)	100 ppm	550 mg/m <sup>3</sup>
Reaction mass of ethylbenzene and xylene	IOELV (8h)	50 ppm	221 mg/m <sup>3</sup>
CAS: Non-applicable EC: 905-588-0	IOELV (STEL)	100 ppm	442 mg/m <sup>3</sup>

# DNEL (Workers):

		Short e	xposure	Long e	xposure
Identification		Systemic	Local	Systemic	Local
acetone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 67-64-1	Dermal	Non-applicable	Non-applicable	186 mg/kg	Non-applicable
EC: 200-662-2	Inhalation	Non-applicable	2420 mg/m <sup>3</sup>	1210 mg/m <sup>3</sup>	Non-applicable
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	11 mg/kg	Non-applicable	11 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	600 mg/m <sup>3</sup>	600 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>

### **DNEL (General population):**

		Short e	xposure	Long ex	kposure
Identification		Systemic	Local	Systemic	Local
acetone	Oral	Non-applicable	Non-applicable	62 mg/kg	Non-applicable
CAS: 67-64-1	Dermal	Non-applicable	Non-applicable	62 mg/kg	Non-applicable
EC: 200-662-2	Inhalation	Non-applicable	Non-applicable	200 mg/m <sup>3</sup>	Non-applicable
N-butyl acetate	Oral	2 mg/kg	Non-applicable	2 mg/kg	Non-applicable
CAS: 123-86-4	Dermal	6 mg/kg	Non-applicable	6 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	300 mg/m <sup>3</sup>	300 mg/m <sup>3</sup>	35,7 mg/m <sup>3</sup>	35,7 mg/m <sup>3</sup>
PNEC					

#### PNEC:



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

Identification				
acetone	STP	100 mg/L	Fresh water	10,6 mg/L
CAS: 67-64-1	Soil	29,5 mg/kg	Marine water	1,06 mg/L
EC: 200-662-2	Intermittent	21 mg/L	Sediment (Fresh water)	30,4 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	3,04 mg/kg
N-butyl acetate	STP	35,6 mg/L	Fresh water	0,18 mg/L
CAS: 123-86-4	Soil	0,09 mg/kg	Marine water	0,018 mg/L
EC: 204-658-1	Intermittent	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,098 mg/kg

# 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 Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective 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 trac 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	NON-disposable chemical protective gloves		EN ISO 374-1:2016 EN 16523-1:2015 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 predicted 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 shield		EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body 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 6529:2013 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 ISO 13287:2012 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.



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Emergency measure	Standards	Emergency measure	Standards
ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011		©+ T	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:20:
Emergency shower		Eyewash stations	
pillage of both the product a	unity legislation for the protection of nd its container. For additional inform		
pillage of both the product an /olatile organic compound	nd its container. For additional inform	ation see subsection 7.1.D	
pillage of both the product an /olatile organic compound	nd its container. For additional inform Is:	ation see subsection 7.1.D	
pillage of both the product an <b>/olatile organic compound</b> With regard to Directive 2010,	nd its container. For additional inform <b>Is:</b> 175/EU, this product has the following	ation see subsection 7.1.D	
pillage of both the product an <b>olatile organic compound</b> <i>V</i> ith regard to Directive 2010, V.O.C. (Supply):	nd its container. For additional inform <b>Is:</b> /75/EU, this product has the following 86,6 % weight	ation see subsection 7.1.D	

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties: For complete information see the product datasheet. **Appearance:** Physical state at 20 °C: Aerosol Appearance: Not available Colour: Not available Odour: Not available Odour threshold: Non-applicable \* Volatility: Boiling point at atmospheric pressure: -42 °C (Propellant) Vapour pressure at 20 °C: Non-applicable \* Vapour pressure at 50 °C: <300000 Pa (300 kPa) Evaporation rate at 20 °C: Non-applicable \* **Product description:** Density at 20 °C: Non-applicable \* Relative density at 20 °C: Non-applicable \* Non-applicable \* Dynamic viscosity at 20 °C: Kinematic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 40 °C: Non-applicable \* Concentration: Non-applicable \* pH: Non-applicable \* Vapour density at 20 °C: Non-applicable \* Partition coefficient n-octanol/water 20 °C: Non-applicable \* Solubility in water at 20 °C: Non-applicable \* Solubility properties: Non-applicable \* Decomposition temperature: Non-applicable \* Melting point/freezing point: Non-applicable \* Recipient pressure: Non-applicable \* \*Not relevant due to the nature of the product, not providing information property of its hazards.



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SECT	TON 9: PHYSICAL AND CHEMICAL PROPERTIES	5 (continued)
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Flammability:	
	Flash Point:	-104 °C (Propellant)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	365 °C (Propellant)
	Lower flammability limit:	1,2 % Volume
	Upper flammability limit:	13 % Volume
	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 infor	mation 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	Oxidising materials	Combustible materials	Others

#### Avoid strong acids 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 the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure: A- Ingestion (acute effect):

\*\* Changes with regards to the previous version



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

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it 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: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.

- Contact with the eyes: Produces eye damage after contact.

- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
  - IARC: Non-applicable
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:
  - Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
  - Skin: Repeated exposure may cause skin dryness or cracking
- H- Aspiration hazard:

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

# Other information:

Non-applicable

# Specific toxicology information on the substances:

Identification	Identification Acute toxicity		Genus
acetone	LD50 oral	5800 mg/kg	Rat
CAS: 67-64-1	LD50 dermal	7426 mg/kg	Rabbit
EC: 200-662-2	LC50 inhalation	76 mg/L (4 h)	Rat
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1	LC50 inhalation	23,4 mg/L (4 h)	Rat
butan-1-ol	LD50 oral	2292 mg/kg	Rat
CAS: 71-36-3	LD50 dermal	3400 mg/kg	Rabbit
EC: 200-751-6	LC50 inhalation	24,66 mg/L (4 h)	Rat

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

Identification	Ac	Acute toxicity	
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
Reaction mass of ethylbenzene and xylene	LD50 oral	2100 mg/kg	Rat
CAS: Non-applicable	LD50 dermal	1100 mg/kg	Rat
EC: 905-588-0	LC50 inhalation	11 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
acetone	LC50	5540 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 67-64-1	EC50	23.5 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-662-2	EC50	3400 mg/L (48 h)	Chlorella pyrenoidosa	Algae
N-butyl acetate	LC50	62 mg/L (96 h)	Leuciscus idus	Fish
CAS: 123-86-4	EC50	73 mg/L (24 h)	Daphnia magna	Crustacean
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
2-methoxy-1-methylethyl acetate	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
CAS: 108-65-6	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacean
EC: 203-603-9	EC50	Non-applicable		
butan-1-ol	LC50	1740 mg/L (96 h)	Pimephales promelas	Fish
CAS: 71-36-3	EC50	1983 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-751-6	EC50	500 mg/L (96 h)	Scenedesmus subspicatus	Algae
Reaction mass of ethylbenzene and xylene	LC50	13.5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: Non-applicable	EC50	0.6 mg/L (96 h)	Gammarus lacustris	Crustacean
EC: 905-588-0	EC50	10 mg/L (72 h)	Skeletonema costatum	Algae

# 12.2 Persistence and degradability:

Identification	Degra	adability	Biodegradab	ility
acetone	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 67-64-1	COD	Non-applicable	Period	28 days
EC: 200-662-2	BOD5/COD	0.96	% Biodegradable	96 %
N-butyl acetate	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 123-86-4	COD	Non-applicable	Period	5 days
EC: 204-658-1	BOD5/COD	0.79	% Biodegradable	84 %
2-methoxy-1-methylethyl acetate	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 %
butan-1-ol	BOD5	1.71 g O2/g	Concentration	Non-applicable
CAS: 71-36-3	COD	2.46 g O2/g	Period	19 days
EC: 200-751-6	BOD5/COD	0.69	% Biodegradable	98 %

# 12.3 Bioaccumulative potential:

	Identification		Bioaccumulation potential	
acetone		BCF		1
CAS: 67-64-1		Pow Log		-0.24
EC: 200-662-2		Potential		Low
N-butyl acetate		BCF		4
CAS: 123-86-4		Pow Log		1.78
EC: 204-658-1		Potential		Low

\*\* Changes with regards to the previous version



# Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU (THIS SDS IS JUST FOR INFORMATIVE PURPOSE. THE SDS SHALL BE SUPPLIED IN AN OFFICIAL LANGUAGE OF THE COUNTRY WHERE THE PRODUCT IS PLACED ON THE MARKET)

# **S2D - RUST PREVENTIVE OXIRON HAMMERED PAINT**

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

Identification		Bioaccumulation potential		
2-methoxy-1-methylethyl acetate	BCF	1		
CAS: 108-65-6	Pow Log	0.43		
EC: 203-603-9	Potential	Low		
butan-1-ol	BCF	1		
CAS: 71-36-3	Pow Log	0.88		
EC: 200-751-6	Potential	Low		
Reaction mass of ethylbenzene and xylene	BCF	9		
CAS: Non-applicable	Pow Log	2.77		
EC: 905-588-0	Potential	Low		

## 12.4 Mobility in soil:

Identification	Absorp	Absorption/desorption		Volatility	
acetone	Кос	1	Henry	2,93 Pa·m³/mol	
CAS: 67-64-1	Conclusion	Very High	Dry soil	Yes	
EC: 200-662-2	Surface tension	2,304E-2 N/m (25 °C)	Moist soil	Yes	
N-butyl acetate	Кос	Non-applicable	Henry	Non-applicable	
CAS: 123-86-4	Conclusion	Non-applicable	Dry soil	Non-applicable	
EC: 204-658-1	Surface tension	2,478E-2 N/m (25 °C)	Moist soil	Non-applicable	
butan-1-ol	Кос	2.44	Henry	5,39E-2 Pa·m <sup>3</sup> /mol	
CAS: 71-36-3	Conclusion	Very High	Dry soil	Yes	
EC: 200-751-6	Surface tension	2,567E-2 N/m (25 °C)	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)
16 05 04*	gases in pressure containers (including halons) containing hazardous substances	Dangerous

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

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

# Waste management (disposal and evaluation):

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

#### **Regulations related to waste management:**

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

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

# SECTION 14: TRANSPORT INFORMATION

# Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:



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SECTION 14: TRANSF	PORT	INFORMATION (continued)	
		UN number:	UN1950
		UN proper shipping name: Transport hazard class(es):	AEROSOLS, flammable 2
	14.5	Labels:	2.1
	14.4	Packing group:	N/A
2		Environmental hazards:	No
▼		Special precautions for user	
		Special regulations:	190, 327, 344, 625
		Tunnel restriction code:	D
		Physico-Chemical properties:	see section 9
		Limited quantities:	1 L
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transport of da	naero	us goods by sea:	
With regard to IN	-		
with regard to in			
		UN number:	UN1950
		UN proper shipping name: Transport hazard class(es):	AEROSOLS, flammable 2
	14.5	Labels:	2.1
	14.4	Packing group:	N/A
		Environmental hazards:	No
		Special precautions for user	
		Special regulations:	63, 959, 190, 277, 327, 344
		EmS Codes:	F-D, S-U
		Physico-Chemical properties:	see section 9
		Limited quantities:	1L
		Segregation group:	Non-applicable
	14.7	Transport in bulk according to Annex II of Marpol and	Non-applicable
		the IBC Code:	
•	-	us goods by air:	
With regard to IA	TA/ICA	AO 2020:	
	14.1	UN number:	UN1950
	14.2	UN proper shipping name:	AEROSOLS, flammable
	14.3	Transport hazard class(es):	2
		Labels:	2.1
		Packing group:	N/A
		Environmental hazards:	No
	14.6	Special precautions for user	
	147	Physico-Chemical properties:	see section 9
	14./	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) No 1907/2006 (REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable Article 95, REGULATION (EU) No 528/2012: Non-applicable REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable



#### Safety data sheet According to 1907/2006/EC (REACH), 2015/830/EU (THIS SDS IS JUST FOR INFORMATIVE PURPOSE. THE SDS SHALL BE SUPPLIED IN AN OFFICIAL LANGUAGE OF THE COUNTRY WHERE THE PRODUCT IS PLACED

ON THE MARKET)

# S2D - RUST PREVENTIVE OXIRON HAMMERED PAINT

# SECTION 15: REGULATORY INFORMATION (continued)

#### Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P3a	FLAMMABLE AEROSOLS	150	500

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

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors: Contains acetone. Product under the provisions of Article 9 Shall not be used in:

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

-tricks and jokes,

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

# Specific provisions in terms of protecting people or the environment:

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

#### Other legislation:

The product could be affected by sectorial legislation

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:** COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

· New declared substances

- 2-methoxy-1-methylethyl acetate (108-65-6)
- 4-hidroxi-4-metil-pentanona (123-42-2)

Reaction mass of ethylbenzene and xylene

- Removed substances
  - propan-2-ol (67-63-0)
  - Xylene (1330-20-7)
  - 2-methoxy-1-methylethyl acetate (108-65-6)
  - 4-hydroxy-4-methylpentan-2-one (123-42-2)
- CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16): Precautionary statements
- Precautionary statements

# Texts of the legislative phrases mentioned in section 2:

- H319: Causes serious eye irritation
- H336: May cause drowsiness or dizziness
- H229: Pressurised container: May burst if heated
- H222: Extremely flammable aerosol

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

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

Version: 4 (Replaced 3)



According to 1907/2006/EC (REACH), 2015/830/EU (THIS SDS IS JUST FOR INFORMATIVE PURPOSE. THE SDS SHALL BE SUPPLIED IN AN OFFICIAL LANGUAGE OF THE COUNTRY WHERE THE PRODUCT IS PLACED ON THE MARKET)

# S2D - RUST PREVENTIVE OXIRON HAMMERED PAINT

# SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 4: H302 - Harmful if swallowed Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways Eye Dam. 1: H318 - Causes serious eye damage Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 2: H225 - Highly flammable liquid and vapour Flam. Liq. 3: H226 - Flammable liquid and vapour Skin Irrit. 2: H315 - Causes skin irritation STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure STOT SE 3: H335 - May cause respiratory irritation STOT SE 3: H336 - May cause drowsiness or dizziness Classification procedure: Eye Irrit. 2: Calculation method STOT SE 3: Calculation method Aerosol 1: Calculation method Aerosol 1: Calculation method Advice related to training: Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources: http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: 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

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 renders and its products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.