

SAFETY DATA SHEET 89

# OXIDEA RUBIGO BASE + REAGENTE LIQUIDO

## 1 IDENTIFICATION OF THE MIXTURE AND THE COMPANY

### 1.1 Product identifier

Product name OXIDEA RUBIGO BASE + REAGENTE LIQUIDO

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

Description/Application SYNTHETIC PAINTING FOR CORTEN EFFECT FINISHINGS

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

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 E-mail address of the competent person responsible to the Safety Data Sheet info@bericalce.it

### 1.4 Emergency telephone number

For urgent inquiries refer to SANITARY EMERGENCY

## 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

The product is classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations). The product thus requires a safety data sheet that complies with the provisions of Regulation (EC) n. 1907/2006 and subsequent amendments. Further information on the risks to health and/or the environment are given in sec. 11 and 12 of this sheet.

Hazard classification and indication:

### 2.2 Label elements

Danger labeling under Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

Pictograms of danger: -

Warnings: -

Hazard:

EUH210 Safety data sheet available on request.

EUH208 Contains: 5-CHLORO-2-METHYL-3 (2H) -ISOTHIAZOLONE / 2-METHYL-3 (2H) -ISOTHIAZOLONE (3: 1); 1,2-BENZISOTHIAZOL-3 (2H) -ONE HYDROXYPHENYL-BENZOTRIAZOLE DERIVATIVES  
 May produce an allergic reaction.

Safety advice: -

Precautionary statements: --

VOC (Directive 2004/42/EC) :

Two-pack performance coatings.

VOC given in g/litre of product in a ready-to-use condition : 81,01

Limit value: 140,00

**OXIDEA RUBIGO BASE + REAGENTE LIQUIDO****2.3 Other dangers**

Based on available data, the product does not contain any PBT or vPvB substances as more than 0,1%

**3 COMPOSITION / INFORMATION ON INGREDIENTS****3.1 Substance**

No relevant information.

**3.2 Miscele**

It contains:

Identification	Conc. %.	Classification 67/548/CEE. Classification 1272/2008 (CLP).
<u>2-BUTOXYETHANOL</u>		
CAS 111-76-2	1,5 ≤ x < 2	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0		
INDEX 603-014-00-0		
Reg. no. 01-2119475108-36		
<u>SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM</u>		
CAS 64742-95-6	1 ≤ x < 1,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: P
EC 265-199-0		
INDEX 649-356-00-4		
Reg. no. 01-2119455851-35		
<u>3-BUTOXY-2-PROPANOL</u>		
CAS 5131-66-8	1 ≤ x < 1,5	Flam. Liq. 3 H226, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 225-878-4		
INDEX 603-052-00-8		
Reg. no. 01-2119475527-28		
<u>HYDROXYPHENYL-BENZOTRIAZOLE DERIVATIVES</u>		
CAS	0,1 ≤ x < 0,11	Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 400-830-7		
INDEX		
Reg. no. 01-0000015075-76-0013		
<u>1,2-BENZISOTHIAZOL-3 (2H) -ONE</u>		
CAS 2634-33-5	0 ≤ x < 0,01	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10
EC 220-120-9		
INDEX 613-088-00-6		
5-CHLORO-2-METHYL-3 (2H) -ISOTHIAZOLONE / 2-METHYL-3 (2H) -ISOTHIAZOLONE (3: 1)		
CAS 55965-84-9	0 ≤ x < 0,0015	Acute Tox. 1 H330, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1A H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC		
INDEX 613-167-00-5		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**4 FIRST AID MEASURES****4.1 Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

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INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take precautions for rescue workers.

## 4.2 Most important symptoms and effects, both acute and delayed.

Specific information on symptoms and effects caused by the product are unknown.

## 4.3 Indication of any immediate medical attention and special treatment needed.

Information not available.

## 5 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be conventional: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use water.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

### 5.3 Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## 6 ACCIDENTAL RELEASE MEASURES

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

Block the loss if there is no danger.

Wear suitable protective equipment (including the individual protective equipment listed in Section 8 of the Safety Data Sheet) to prevent skin, eye and personal contamination.

These directions are valid both for the workers to work which for emergency interventions.

### 6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Use dry cleanup methods such as vacuum cleaners or vacuum extraction (greased portable industrial, equipped with high efficiency particulate filters or equivalent techniques) that do not scatter dust in the environment.

Never use compressed air. Ensure that workers wear appropriate personal protective equipment (see section 8) in order to prevent inhalation of dust and contact with skin and eyes. Deposit spillage in containers for future use. Verify the compatibility of containers' material in section 7. Ensure adequate ventilation of the place affected by the loss. The disposal of contaminated material must be made in accordance with section 13.

### 6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

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## 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Keep away from heat, sparks and naked flames, do not smoke or use matches or lighters. Without adequate ventilation, vapors may accumulate on the ground and ignite even if they are triggered, with a risk of flame retardation. Avoid accumulation of electrostatic charges. Do not eat, nor drink, nor smoke while handling it. Remove contaminated clothing and equipment before entering eat areas. Avoid dispersal into the environment.

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

Store only in the original container. Keep container closed, in a well-ventilated place, away from direct sunlight. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3 Specific end use(s)

Information not available.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06
EU	OEL EU	Directive 2009/161/UE; Direttiva 2006/15/CE; Direttiva 2004/37/CE; Directive 2000/39/CE.
	TLV-ACGIH	ACGIH 2017

#### AMORPHOUS HYDRATED SILICATE

Threshold limit value		TWA/8h		STEL/15min		
Type	State	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
AGW	DEU	4				inhalab
MAK	DEU	4				inhalab
TLV	EST	2				

#### 2-BUTOXYETHANOL

Threshold limit value		TWA/8h		STEL/15min		
Type	State	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
AGW	DEU	49	10	196	40	SKIN
MAK	DEU	49	10	98	20	SKIN
VLA	ESP	98	20	245	50	SKIN
TLV	EST	98	20	246	50	SKIN
VLEP	FRA	49	10	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
AK	HUN	98		246		
VLEP	ITA	98	20	246	50	SKIN
RD	LTU	50	10	100	20	SKIN
RV	LVA	98	20	246	50	SKIN
NDS	POL	98		200		
VLE	PRT	98	20	246	50	SKIN
TLV	ROU	150	30	250	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

**OXIDEA RUBIGO BASE + REAGENTE LIQUIDO****1,2-PROPANEDIOL**

Threshold limit value		TWA/8h		STEL/15min	
Type	State	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
WEL	GBR	474	150		
RD	LTU	7			
RV	LVA	7			

Legend:

(C) = CEILING ;

INHAL = Inhalable Fraction ;

RESP = Respirable Fraction ;

THORA = Thoracic Fraction.

TLV of solvent mixture: 97 mg/m<sup>3</sup>

**8.2 Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

**HAND PROTECTION**

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable.

The gloves' wear time depends on the duration and type of use.

**SKIN PROTECTION**

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344).

Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered.

The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138).

For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**OXIDEA RUBIGO BASE + REAGENTE LIQUIDO****9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	Dense liquid
Colour	Dark gray
Odour	characteristic
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	> 100 °C
Boiling range	Not available
Flash point	> 60 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,05
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

**9.2 Other information not available**

Total solids (250°C / 482°F) 37,00 %  
 VOC (Directive 2004/42/EC) : 7,72 % - 81,01 g/litre  
 VOC (volatile carbon) : 4,70 % - 49,31 g/litre

**10 STABILITY AND REACTIVITY****10.1 Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.  
 Dipropylene Glycol Monomethylether can react with: oxidizing substances. Decomposed release emits: acrylic fumes, zinc alloys.

**10.2 Chemical stability**

The product is stable under normal conditions of use and storage.

**10.3 Possibility of hazardous reactions**

Vapors can form explosive mixtures with the air.  
 Butoxyethanol can react dangerously with: aluminum, oxidizing agents. Forms peroxides with: air.

**10.4 Conditions to avoid**

Avoid overheating. Avoid accumulation of electrostatic charges. Avoid any source of ignition.  
 Due to the presence of Butoxyethanol, avoid exposure to: sources of heat, free flames.

**10.5 Incompatible materials**

Information not available.

**10.6 Hazardous decomposition products**

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released. 2-BUTOXYETHANOL May develop: hydrogen.

**OXIDEA RUBIGO BASE + REAGENTE LIQUIDO****11 TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Immediate, delayed effects and chronic effects from short and long term exposures

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l

LD50 (Oral) of the mixture: >2000 mg/kg

LD50 (Dermal) of the mixture: >2000 mg/kg

3-BUTOXY-2-PROPANOL

LD50 (Oral) 3300 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rat

2-BUTOXYETHANOL

LD50 (Oral) 615 mg/kg Rat

LD50 (Dermal) 405 mg/kg Rabbit

LC50 (Inhalation) 2,2 mg/l/4h Rat

1,2-BENZISOTHIAZOL-3 (2H) -ONE

LD50 (Oral) 675 mg/kg ratto femmina

LD50 (Dermal) > 5000 mg/kg ratto

5-CHLORO-2-METHYL-3 (2H) -ISOTHIAZOLONE / 2-METHYL-3 (2H) -ISOTHIAZOLONE (3: 1)

LD50 (Oral) 457 mg/kg RATTO

LD50 (Dermal) 660 mg/kg CONIGLIO

LC50 (Inhalation) 0,31 mg/l/4h RATTO

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

5-CHLORO-2-METHYL-3 (2H) -ISOTHIAZOLONE / 2-METHYL-3 (2H) -ISOTHIAZOLONE (3: 1)

1,2-BENZISOTHIAZOL-3 (2H) -ONE

HYDROXYPHENYL-BENZOTRIAZOLE DERIVATIVES

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**OXIDEA RUBIGO BASE + REAGENTE LIQUIDO****12 ECOLOGICAL INFORMATION**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

**12.1 Toxicity**1,2-BENZISOTHIAZOL-3 (2H) -ONE

LC50 - for Fish	1,6 mg/l/96h SALMO GAIRDNERI
EC50 - for Crustacea	1,35 mg/l/48h DAPHNIA MAGNA
EC50 - for Algae / Aquatic Plants	0,07 mg/l/72h ALGHE

5-CHLORO-2-METHYL-3 (2H) -ISOTHIAZOLONE / 2-METHYL-3 (2H) -ISOTHIAZOLONE (3: 1)

LC50 - for Fish	0,28 mg/l/96h
EC10 for Algae / Aquatic Plants	> 188 mg/l/72h

**12.2 Persistence and degradability**3-BUTOXY-2-PROPANOL

Solubility in water	52000 mg/l
Rapidly degradable	

2-BUTOXYETHANOL

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM

Rapidly degradable

1,2-BENZISOTHIAZOL-3 (2H) -ONE

Rapidly degradable

5-CHLORO-2-METHYL-3 (2H) -ISOTHIAZOLONE / 2-METHYL-3 (2H) -ISOTHIAZOLONE (3: 1)

NOT rapidly degradable

**12.3 Bioaccumulative potential**3-BUTOXY-2-PROPANOL

Partition coefficient:	1,2 n-octanol/water
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2-BUTOSSIETANOLO

Partition coefficient:	0,81 n-octanol/water
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**12.4 Mobility in soil**SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM

Partition coefficient:	soil/water 1,78
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**12.5 Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%

**12.6 Other adverse effects**

Information not available

**13 DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**OXIDEA RUBIGO BASE + REAGENTE LIQUIDO****14 TRANSPORT INFORMATION**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1 ONU number**

Not applicable.

**14.2 ONU shipping name**

Not applicable.

**14.3 Hazard classes connected to shipping**

Not applicable.

**14.4 Packaging group**

Not applicable.

**14.5 Environmental hazards**

Not applicable.

**14.6 Special precautions for users**

Not applicable.

**14.7 Shipping of bulk according to MARPOL 73/78 annex and the IBC code**

No relevant information.

**15 REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Substances in Candidate List (Art. 59 REACH): None

Substances subject to authorisation (Annex XIV REACH): None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls: Information not available

VOC (Directive 2004/42/EC) :

Two-pack performance coatings.

**15.2 Chemical safety assessment**

No chemical safety assessment has been processed for the mixture and the substances it contains.

**16 OTHER INFORMATIONS**

Flam. Liq. 3 Flammable liquid, category 3

Acute Tox. 1 Acute toxicity, category 1

Acute Tox. 3 Acute toxicity, category 3

Acute Tox. 4 Acute toxicity, category 4

Asp. Tox. 1 Aspiration hazard, category 1

Skin Corr. 1A Skin corrosion, category 1A

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

## OXIDEA RUBIGO BASE + REAGENTE LIQUIDO

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Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1  
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1  
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2  
H226 Flammable liquid and vapour.  
H330 Fatal if inhaled.  
H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H335 May cause respiratory irritation.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
EUH210 Safety data sheet available on request.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

## OXIDEA RUBIGO BASE + REAGENTE LIQUIDO

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### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version.

Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations.

The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

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