

Safety Data Sheet dated 9/3/2019, version 1

1.1. Product ident	
Mixture ide	
Trade r	ame : OXIDO AMARILLO TRANSPARENTE
1.2. Relevant ider Product type and	tified uses of the substance or mixture and uses advised against use: Painting product for car refinish and industrial job-professional use supplier of the safety data sheet
	ROBERLO, S.A. Carretera N-II, Km. 706,5 - E-17457 - Riudellots de la Selva (Girona) – ESPAÑA Teléfono: +34 972 478 060 - Fax: +34 972 477 394
Competent person msds@rob	n responsible for the safety data sheet: erlo.com
1.4. Emergency te	
+34 972 47	8060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)
EC regulation crit The product Adverse physicoc No other ha 2.2. Label elemen The product is no Hazard pictogram None Hazard statement None Precautionary sta None Special Provision EUH210 Sa	of the substance or mixture eria 1272/2008 (CLP): t is not classified as dangerous according to Regulation EC 1272/2008 (CLP). hemical, human health and environmental effects: azards ts c classified as dangerous according to Regulation EC 1272/2008 (CLP). s: s: s: tements: afety data sheet available on request. according to Annex XVII of REACH and subsequent amendments:

3.2. Mixtures



Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb	er	Classification
>=5% -< 7%	2-butoxyethanol; ethylene glycol monobutyl ether	number: CAS: EC: REACH No.:	603-014-00-0 111-76-2 203-905-0 01- 2119475108- 36	 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319
>=1% -< 3%	propan-2-ol; isopropyl alcohol; isopropanol	number: CAS: EC: REACH No.:	603-003-00-0 67-63-0 200-661-7 01- 2119457558- 25	 2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and sop.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

- 4.2. Most important symptoms and effects, both acute and delayed No data available
- 4.3. Indication of any immediate medical attention and special treatment needed Treatment: None

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
 - Water.
 - Carbon dioxide (CO2).
 - Extinguishing media which must not be used for safety reasons: None in particular.
- 5.2. Special hazards arising from the substance or mixture Do not inhale explosion and combustion gases.
 - Burning produces heavy smoke.
 - Burning produces heavy sr
- 5.3. Advice for firefighters
 - Use suitable breathing apparatus .
 - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.



SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.
- 6.2. Environmental precautions
 Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.
 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
- Wash with plenty of water.
- 6.4. Reference to other sections See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists. Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
 - 7.2. Conditions for safe storage, including any incompatibilities Keep away from food, drink and feed. Incompatible materials: None in particular. Instructions as regards storage premises: Adequately ventilated premises.
 - 7.3. Specific end use(s) None in particular

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters
      2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
             EU - TWA(8h): 98 mg/m3, 20 ppm - STEL: 246 mg/m3, 50 ppm - Notes: Skin
             ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr
             10 - TWA(8h): 98 mg/m3, 20 ppm - STEL: 246 mg/m3, 50 ppm - Notes: pelle
      propan-2-ol - CAS: 67-63-0
             ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr,
            CNS impair
DNEL Exposure Limit Values
      2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
            Worker Professional: 75 mg/kg - Exposure: Human Dermal - Frequency: Long Term,
            systemic effects
            Worker Professional: 98 mg/kg - Exposure: Human Inhalation - Frequency: Long Term,
            systemic effects
      propan-2-ol - CAS: 67-63-0
            Worker Professional: 888 mg/kg - Exposure: Human Dermal - Frequency: Long Term,
            systemic effects
            Worker Professional: 500 mg/kg - Exposure: Human Inhalation - Frequency: Long
            Term, systemic effects
PNEC Exposure Limit Values
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2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2 Target: 08 - Value: 463 mg/l Target: Fresh Water - Value: 34.6 mg/kg Target: Marine water - Value: 3.46 mg/kg Target: Soil (agricultural) - Value: 3.13 mg/kg propan-2-ol - CAS: 67-63-0 Target: 08 - Value: 140.9 mg/l Target: Freshwater sediments - Value: 552 mg/kg Target: Marine water sediments - Value: 552 mg/kg Target: Soil (agricultural) - Value: 28 mg/kg Target: Marine water - Value: 140.9 mg/l 8.2. Exposure controls Eye protection: Not needed for normal use. Anyway, operate according good working practices. Protection for skin: No special precaution must be adopted for normal use. Protection for hands: Not needed for normal use. Respiratory protection: Not needed for normal use. Thermal Hazards: None Environmental exposure controls: None Appropriate engineering controls: None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Liquido		
Odour:	CHARACTER ISTIC		
Odour threshold:	N.A.		
pH:	8.5		
Melting point / freezing point:	N.A.		
Initial boiling point and boiling range:	> 35 gradi C.		
Flash point:	> 60		
Evaporation rate:	N.A.		
Solid/gas flammability:	N.A.		
Upper/lower flammability or explosive limits:	N.A.		
Vapour pressure:	N.D.		
Vapour density:	>Aria		
Relative density:	1.02 Kg/L Kg/L		
Solubility in water:	Solubile		
Solubility in oil:	N.A.		



Partition coefficient (n-	N.A.	
octanol/water):		
Auto-ignition temperature:	N.A.	
Decomposition	N.A.	
temperature:		
Viscosity:	kv > 20,5	
-	mm2/s	
Explosive properties:	N.A.	
Oxidizing properties:	N.D.	

9.2. Other information

Properties	Value	Method:	Notes:	
Miscibility:	N.A.			
Solids	18.1			
% Volatile carbon:	6.6			
% Solvent	11.4			
Fat Solubility:	N.A.			
Conductivity:	N.A.			
Substance Groups	N.A.			
relevant properties				

SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability
 - Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid Stable under normal conditions.)10.5. Incompatible materials
 - None in particular.
- 10.6. Hazardous decomposition products None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2 a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 450 Ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 1746 mg/kg

- Test: LD50 Route: Skin Species: Rat = 6411 mg/kg
- propan-2-ol CAS: 67-63-0

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a) acute toxicity:
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Test: LD50 - Route: Oral - Species: Rat = 5840 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 10000 Ppm - Duration: 4h



Test: LD50 - Route: Skin - Species: Rabbit = 16.4 ml/kg 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2 OBSERVATIONS ON HUMAN SUBJECTS: probable lethal oral dose: 50-500 mg/Kg. Following repeated and/or prolonged exposure, it causes headache, drowsiness, debility, stuttering, tremors, blurred vision, abluminuria and damage to the bone marrow.

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt sound working practices, so that the product is not released into the environment. 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2 a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae = 911 mg/l - Duration h: 72 Endpoint: LC50 - Species: Fish = 1474 mg/kg - Duration h: 96

propan-2-ol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 48

12.2. Persistence and degradability

None

- N.A.
- 12.3. Bioaccumulative potential

N.A.

- 12.4. Mobility in soil
- N.A.
- 12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects None

SECTION 13: Disposal considerations

13.1. Waste treatment methods Recover if possible. In so doing, comply with the local and national regulations currently in force.



SECTION 14: Transport information

14.1. UN number
Not classified as dangerous in the meaning of transport regulations.
14.2. UN proper shipping name
N.Á.

- 14.3. Transport hazard class(es)
- N.A.
- 14.4. Packing group N.A.
- 14.5. Environmental hazards
 - IMDG-Marine pollutant: NO
- 14.6. Special precautions for user N.A.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) 2015/830 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: **Restriction 40** Restrictions related to the substances contained: No restriction. Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive) Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1
 - None
- 15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture.



SECTION 16: Other information

Text of phrases referred to under heading 3:

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.



INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
	by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.