



Safety Data Sheet dated 3/4/2015, version 2

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1. Product identifier  
Mixture identification:  
Trade name: ARDELAST QUARZO  
Trade code: .563
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended use:  
Wall paint ; professional use  
Uses advised against:  
No specific exclusion are known
- 1.3. Details of the supplier of the safety data sheet  
Company:  
ARD - F.LLI RACCANELLO SPA  
Prima strada, 13 Zona Industriale Nord  
35129 PADOVA - ITALY  
Tel. +390498060000 Fax. +39049773749 ( only available during office hours )  
Competent person responsible for the safety data sheet:  
tecnica@ard-raccanello.it
- 1.4. Emergency telephone number  
Tel. +390498060000 Fax. +39049773749 ( only available during office hours )  
Centro antiveleni – Ospedale Niguarda – Milano - tel. +390266101029  
Centro antiveleni – Policlinico A.Gemelli – Roma - tel. +39063054343  
Centro antiveleni – Ospedale Cardarelli – Napoli - tel.+390817472870

**SECTION 2: Hazards identification**




- 2.1. Classification of the substance or mixture  
Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:  
Properties / Symbols:  
None.  
R Phrases:  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- EC regulation criteria 1272/2008 (CLP)  
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.  
Adverse physicochemical, human health and environmental effects:  
No other hazards
- 2.2. Label elements  
Symbols:  
None  
Hazard statements:  
H412 Harmful to aquatic life with long lasting effects.  
Precautionary statements:  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with applicable regulations.  
Special Provisions:  
None  
Contents  
Reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1);  
: May produce an allergic reaction.  
Special provisions according to Annex XVII of REACH and subsequent amendments:  
None
- 2.3. Other hazards  
vPvB Substances: None - PBT Substances: None  
Other Hazards:  
No other hazards

**SECTION 3: Composition/information on ingredients**





- 3.1. Substances  
The product is not considered as a substance.  
Data not available
- 3.2. Mixtures  
Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:  
0.25% - 0.5% 2-(2-Butoxyethoxy)ethanol  
REACH No.: 01-2119475104-44, Index number: 603-096-00-8, CAS: 112-34-5, EC: 203-961-6  
Xi; R36  
⚠ 3.3/2 Eye Irrit. 2 H319
- 0.1% - 0.25% Ammonia 31%  
REACH No.: 01-2119488876-14, Index number: 007-001-01-2, CAS: 1336-21-6, EC: 215-647-6  
C,N; R34-50

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-  3.2/1B Skin Corr. 1B H314
-  3.8/3 STOT SE 3 H335
-  4.1/A1 Aquatic Acute 1 H400

100 ppm Terbutrina

- CAS: 886-50-0, EC: 212-950-5
- Xn,Xi,N; R22-43-50/53
-  4.1/A1 Aquatic Acute 1 H400
-  4.1/C1 Aquatic Chronic 1 H410
-  3.1/4/Oral Acute Tox. 4 H302
-  3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

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 known symptoms to date.

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

Treatment:

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Irrelevant, the product is not flammable.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

May produce toxic fumes of carbon monoxide if burning.

Do not inhale explosion and combustion gases.

#### 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.

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### 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.

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

Suitable material for taking up: absorbing material, organic, sand.

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Contaminated clothing should be changed before entering eating areas.

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

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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### Exposure limit(s):

2-(2-Butoxyethoxy)ethanol - CAS: 112-34-5

OEL EU - LTE(8h): 67.5 mg/m<sup>3</sup>, 10 ppm - STE(15'): 101.2 mg/m<sup>3</sup>, 15 ppm - Notes: Bold-type: Indicative  
Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see  
bibliography)

TLV ACGIH, 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff

### DNEL Values:

2-(2-Butoxyethoxy)ethanol - CAS: 112-34-5

Worker Professional: 67.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 67.5 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 20 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Exposure: Human Dermal - Frequency: Long Term, local effects - Endpoint: Hazard Identified but no value  
available

### PNEC Values:

2-(2-Butoxyethoxy)ethanol - CAS: 112-34-5

Target: Fresh Water - Value: 1 mg/l

Target: Marine water - Value: 0.1 mg/l

Target: Freshwater sediments - Value: 4 mg/kg

Target: Marine water sediments - Value: 0.4 mg/kg

Target: Food chain - Value: 56 mg/kg

### 8.2. Exposure controls

#### Eye/ face protection:

Not needed for normal use. Anyway, operate according good working practices.

#### Skin protection

##### a) protection for hands:

One-time gloves.

##### b) other:

No special precaution must be adopted for normal use.

#### Respiratory protection:

Not needed for normal use.

#### Thermal Hazards:

None

#### Environmental exposure controls:

None

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance and colour: Fluid dispersion various colors

Odour: Characteristic: slightly acrid

Odour threshold: Data not available

pH: 9,0

Melting point / freezing point: Data not available

Initial boiling point and boiling range: Data not available

Solid/gas flammability: Data not available

Upper/lower flammability or explosive limits: Data not available

Vapour density: Data not available

Flash point: Not flammable

Evaporation rate: Data not available

Vapour pressure: Data not available

Relative density: 1260 - 1340 g/l a 20°C

Solubility in water: Miscible

Solubility in oil: Insoluble

Partition coefficient (n-octanol/water): Data not available

Auto-ignition temperature: Data not available

Decomposition temperature: Data not available

Viscosity: 16000 - 25000 cP 20°C

Explosive properties: Data not available

Oxidizing properties: Data not available

### 9.2. Other information

Miscibility: Data not available

Fat Solubility: Data not available

Conductivity: Data not available

Substance Groups relevant properties: Data not available

Note: The data herein refer to QC when the product was put on the market.

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## 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.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

Data not available

Toxicological information of the main substances found in the mixture:

2-(2-Butoxyethoxy)ethanol - CAS: 112-34-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 2764 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization Negative

e) germ cell mutagenicity:

Test: Mutagenesis Negative - Notes: OECD 471

g) reproductive toxicity:

Test: Reproductive Toxicity Negative

Ammonia 31% - CAS: 1336-21-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 350 mg/kg - Notes: IUCLID 5

b) skin corrosion/irritation:

Test: Skin Corrosive Positive

c) serious eye damage/irritation:

Test: Eye Irritant Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization Negative

h) STOT-single exposure:

Test: Respiratory Tract Irritant Positive

If not differently specified, the information required in Regulation 453/2010/EC 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.

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SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2-(2-Butoxyethoxy)ethanol - CAS: 112-34-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 100 mg/L - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Daphnia = 2850 mg/L - Duration h: 24 - Notes: Daphnia magna

Endpoint: IC50 - Species: Algae > 100 mg/L - Duration h: 96 - Notes: Scenedesmus subspicatus

Endpoint: LC50 - Species: Fish = 1300 mg/L - Duration h: 96 - Notes: Lepomis macrochirus

Endpoint: LC50 - Species: Fish = 2700 mg/L - Duration h: 24 - Notes: Carassius auratus

Ammonia 31% - CAS: 1336-21-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia = 0.101 mg/L - Duration h: 96 - Notes: IUCLID 5

Endpoint: LC50 - Species: Fish = 0.89 mg/L - Duration h: 96 - Notes: IUCLID 5

Terbutrina - CAS: 886-50-0

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 0.0067 mg/L - Duration h: 48 - Notes: OECD 201, Scenedesmus subspicatus

12.2. Persistence and degradability

Data not available

12.3. Bioaccumulative potential

Ammonia 31% - CAS: 1336-21-6

Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient -0.64 - Duration: Data not available -

Notes: Data not available

Terbutrina - CAS: 886-50-0

Bioaccumulation: Not bioaccumulative - Test: log Kow 3.2 - Duration: Data not available - Notes: Data not available

12.4. Mobility in soil

Data not available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

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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.  
Waste should not be disposed of by release to sewers.  
Contaminated packaging thinners and cleaning diluents must be landfilled.

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SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Data not available

14.3. Transport hazard class(es)

Data not available

14.4. Packing group

Data not available

14.5. Environmental hazards

ADR-Environmental Pollutant: No

Data not available

14.6. Special precautions for user

Data not available

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Data not available

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances).

Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations).

DIR.2004/42/CE. Subcategory c Type BA limit COV 40 g/l. Contained in product < 40 g/l.

Regulation (EU) No 528/2012 and subsequent amendments.

This product contains biocides. Active ingredients:

Zinc pyrithione

2-ottil-2H-isotiazol-3-one

Terbutryn

Dir. 98/24/EC (Risks related to chemical agents at work).

Directive 2000/39/CE (Occupational exposure limit values) and subsequent modifications: 2004/37/CE, 2006/15/CE and 2009/161/UE.

Dir. 2006/8/EC

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) n. 453/2010 (Annex I)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

15.2. Chemical safety assessment

No

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SECTION 16: Other information

Full text of phrases referred to in Section 3:

R22 Harmful if swallowed.

R34 Causes burns.

R36 Irritating to eyes.

R43 May cause sensitization by skin contact.

R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H319 Causes serious eye irritation.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

SECTION 4: First aid measures

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

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SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

The ECHA database on registered substances.

ESIS- European chemical Substances Information System.

eChemPortal- the global portal to Information on Chemical Substance.

GESTIS substance database.

Insert further consulted bibliography

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.

Legend of acronyms and abbreviations used in the safety data sheet:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EC50:	Median effective concentration expected to produce a certain effect in 50% of test organisms
ECHA:	European Chemicals Agency
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of notified Chemical Substances
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).
IC50:	Half maximal inhibitory concentration.
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
NOEC:	No Observed Effect Concentration
Numero EC:	EINECS and ELINCS Number
OEL:	
PBT:	Persistent, Bioaccumulative and Toxic substance
PNEC:	Predicted No Effect Concentration.
REACH:	Regulation (EC) No 1907/2006 Registration, Evaluation, Authorisation and Restriction of Chemicals
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
SVHC:	Substances of Very High Concern
TLV:	Threshold Limiting Value.
UE:	European Union
vPvB:	Very Persistent and Very Bioaccumulative