



Safety Data Sheet dated 3/8/2015, version 3

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

1.1. Product identifier

Mixture identification:

Trade name: salvaferro

Trade code: .293

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

Recommended use:

Paint ; professional use - for the final consumer

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

EC regulation criteria 1272/2008 (CLP)

⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.

⚠ Danger, Repr. 1B, May damage fertility or the unborn child.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Danger

Hazard statements:

H226 Flammable liquid and vapour.

H360 May damage fertility or the unborn child.

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.

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

P271 Use only outdoors or in a well-ventilated area.

P370+P378 In case of fire: Use a dry powder or a foam fire extinguisher for extinction.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contents

1-etilpirrolidin-2-one

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate: May produce an allergic reaction.

2-Butanone oxime: May produce an allergic reaction.

Benzotriazole derivatives : EC 400-830-7\*: May produce an allergic reaction.

Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate: 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:

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15% - 20% HYDROCARDONS C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

REACH No.: 01-2119463258-33, EC: 919-857-5

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.8/3 STOT SE 3 H336

EUH066

DECLP (CLP)\*

0.5% - 0.99% 1-etilpirrolidin-2-one

REACH No.: 01-2119472138-36, CAS: 2687-91-4, EC: 220-250-6

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 3.7/1B Repr. 1B H360

0.5% - 0.99% Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

CAS: 41556-26-7, EC: 255-437-1

⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

⚠ 4.1/C1 Aquatic Chronic 1 H410

0.25% - 0.5% 1-Methoxy-2-propanol; monopropylene glycol methyl ether

REACH No.: 01-2119457435-35, Index number: 603-064-00-3, CAS: 107-98-2, EC: 203-539-1

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.8/3 STOT SE 3 H336

0.25% - 0.5% 2-Butanone oxime

REACH No.: 01-2119539477-28, Index number: 616-014-00-0, CAS: 96-29-7, EC: 202-496-6

⚠ 3.6/2 Carc. 2 H351

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

⚠ 3.1/4/Dermal Acute Tox. 4 H312

0.25% - 0.5% Benzotriazole derivatives : EC 400-830-7\*

REACH No.: 01-0000015075-76, Index number: 607-176-00-3, EC: 400-830-7

⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

⚠ 4.1/C2 Aquatic Chronic 2 H411

0.1% - 0.25% Zirconio 2-etilesanoato

CAS: 22464-99-9, EC: 245-018-1

⚠ 3.7/2 Repr. 2 H361

0.1% - 0.25% Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

CAS: 82919-37-7, EC: 280-060-4

⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

⚠ 4.1/C1 Aquatic Chronic 1 H410

660 ppm 1,2,4-Trimethylbenzene

Index number: 601-043-00-3, CAS: 95-63-6, EC: 202-436-9

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 4.1/C2 Aquatic Chronic 2 H411

⚠ 3.1/4/Inhal Acute Tox. 4 H332

660 ppm Mesitylene; 1,3,5-Trimethylbenzene

Index number: 601-025-00-5, CAS: 108-67-8, EC: 203-604-4

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.8/3 STOT SE 3 H335

⚠ 4.1/C2 Aquatic Chronic 2 H411

125 ppm 2-(2-Butoxyethoxy)ethanol

REACH No.: 01-2119475104-44, Index number: 603-096-00-8, CAS: 112-34-5, EC: 203-961-6

⚠ 3.3/2 Eye Irrit. 2 H319

98 ppm Xylene

REACH No.: 01-2119488216-32, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.9/2 STOT RE 2 H373

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.1/4/Dermal Acute Tox. 4 H312

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.8/3 STOT SE 3 H335

61 ppm Phosphoric acid >25%

REACH No.: 01-2119485924-24, Index number: 015-011-00-6, CAS: 7664-38-2, EC: 231-633-2

⚠ 3.2/1B Skin Corr. 1B H314

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\*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

\*EC 400-830-7 : reaction mass of  
a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-w-hydroxypoly(oxyethylene) and  
a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-w-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxy(oxyethylene)

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.  
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

Drowsiness

Dizziness

Nausea

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Use dry chemical or foam extinguishers.

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

Before approaching the fire, cool containers exposed to fire with water spray. Wear full firefighting equipment.

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 all sources of ignition.

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

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

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Instructions as regards storage premises:  
Cool and adequately ventilated.

- 7.3. Specific end use(s)  
None in particular

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s):

HYDROCARBONS C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

DFG - LTE(8h): 1200 mg/m<sup>3</sup>, 197 ppm

TLV ACGIH - LTE(8h): 1200 mg/m<sup>3</sup>, 197 ppm

1-Methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

OEL EU - LTE(8h): 375 mg/m<sup>3</sup>, 100 ppm - STE: 563 mg/m<sup>3</sup>, 150 ppm - Notes: Bold-type: Indicative

Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

TLV ACGIH - LTE(8h): 184 mg/m<sup>3</sup>, 50 ppm - STE: 368 mg/m<sup>3</sup>, 100 ppm - Notes: A4 - Eye and URT irr

1,2,4-Trimethylbenzene - CAS: 95-63-6

OEL EU - LTE(8h): 100 mg/m<sup>3</sup>, 20 ppm - Notes: Bold-type: Indicative occupational exposure limit values [2,3] and limit values for occupational exposure [4] (for reference see bibliography) (for references see bibliography)

Mesitylene; 1,3,5-Trimethylbenzene - CAS: 108-67-8

OEL EU - LTE(8h): 100 mg/m<sup>3</sup>, 20 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

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

OEL EU - LTE(8h): 67.5 mg/m<sup>3</sup>, 10 ppm - STE: 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 - LTE(8h): 66 mg/m<sup>3</sup>, 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff

Xylene - CAS: 1330-20-7

OEL EU - LTE(8h): 221 mg/m<sup>3</sup>, 50 ppm - STE: 442 mg/m<sup>3</sup>, 100 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

TLV ACGIH - LTE(8h): 100 ppm - STE: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

Phosphoric acid >25% - CAS: 7664-38-2

OEL EU - LTE(8h): 1 mg/m<sup>3</sup> - STE: 2 mg/m<sup>3</sup> - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

TLV ACGIH - LTE(8h): 1 mg/m<sup>3</sup> - STE: 3 mg/m<sup>3</sup> - Notes: URT, eye and skin irr

DNEL Values:

HYDROCARBONS C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Worker Professional: 871 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 871 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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

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

1-ethylpiperolidin-2-one - CAS: 2687-91-4

Worker Professional: 40 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

1-Methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Worker Professional: 553.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 369 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 50.6 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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

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

2-Butanone oxime - CAS: 96-29-7

Worker Professional: 2.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 1.3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 9 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 3.33 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Benzotriazole derivatives : EC 400-830-7\* - Index number: 607-176-00-3

Worker Professional: 0.35 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 0.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

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

Xylene - CAS: 1330-20-7

Worker Professional: 289 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 77 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Phosphoric acid >25% - CAS: 7664-38-2

Worker Professional: 2.92 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Values:

HYDROCARBONS C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Target: Marine water - Type of hazard: Hazard Identified but no value available

Target: Fresh Water - Type of hazard: Hazard Identified but no value available

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- Target: Food chain - Type of hazard: Hazard Identified but no value available
- 1-ethylpiperolidin-2-one - CAS: 2687-91-4  
 Target: Fresh Water - Value: 0.25 mg/l  
 Target: Marine water - Value: 0.025 mg/l  
 Target: Freshwater sediments - Value: 1.91 mg/kg  
 Target: Marine water sediments - Value: 0.191 mg/kg  
 Target: Soil - Value: 0.235 mg/kg
- 1-Methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2  
 Target: Fresh Water - Value: 10 mg/l  
 Target: Marine water - Value: 1 mg/l  
 Target: Freshwater sediments - Value: 41.6 mg/l  
 Target: Marine water sediments - Value: 4.17 mg/kg  
 Target: Soil (agricultural) - Value: 2.47 mg/kg
- 2-Butanone oxime - CAS: 96-29-7  
 Target: Fresh Water - Value: 0.256 mg/l
- Benzotriazole derivatives : EC 400-830-7\* - Index number: 607-176-00-3  
 Target: Fresh Water - Value: 0.0023 mg/l  
 Target: Marine water - Value: 0.00023 mg/l  
 Target: Freshwater sediments - Value: 3.06 mg/kg  
 Target: Marine water sediments - Value: 0.306 mg/kg  
 Target: Soil - Value: 2 mg/kg
- 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
- Xylene - CAS: 1330-20-7  
 Target: Freshwater sediments - Value: 12.46 mg/kg  
 Target: Marine water sediments - Value: 12.46 mg/kg  
 Target: Soil - Value: 2.31 mg/kg  
 Target: Fresh Water - Value: 0.327 mg/l  
 Target: Marine water - Value: 0.327 mg/l

8.2. Exposure controls

Eye/ face protection:

- Eye glasses with side protection.
- For spray application, use basket eye glasses.

Skin protection

a) protection for hands:

- NBR (nitrile rubber) gloves.
- PVA (Polyvinyl alcohol) gloves.
- In case of a prolonged use employ suitable protective gloves.

b) other:

Overall.

Respiratory protection:

- Half-face mask DIN EN 140 with filter "A" , brown colour
- For spray application, use mask according to EN 405 with filter type PA or universal.

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:	Fluid dispersion various colors	--	--
Odour:	Characteristic: hydrocarbons	--	--
Odour threshold:	Data not available	--	--
pH:	Irrelevant	--	--
Melting point / freezing point:	Data not available	--	--
Initial boiling point and boiling range:	Data not available	--	--
Flash point:	38°C	EN ISO 13736	--

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Evaporation rate:	Data not available	--	--
Solid/gas flammability:	Data not available	--	--
Upper/lower flammability or explosive limits:	Data not available	--	--
Vapour pressure:	Data not available	--	--
Vapour density:	Data not available	--	--
Relative density:	1440 - 1580 g/l	UNI EN ISO 2811-1	20°C
Solubility in water:	Insoluble	--	--
Solubility in oil:	Miscible	--	--
Partition coefficient (n-octanol/water):	Data not available	--	--
Auto-ignition temperature:	Data not available	--	--
Decomposition temperature:	Data not available	--	--
Viscosity:	2600 - 2900 cP	ISO 2555	20°C
Explosive properties:	Data not available	--	--
Oxidizing properties:	Data not available	--	--

9.2. Other information

Properties	Value	Method:	Notes:
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.

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

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

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:

HYDROCARBONS C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 4951 mg/m<sup>3</sup>

1-Methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5300 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 13000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 54.6 mg/L - Duration: 4h

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2-Butanone oxime - CAS: 96-29-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 13.2 mg/L - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat = 1000 mg/kg

Test: LD50 - Route: Oral - Species: Rat > 900 mg/kg

c) serious eye damage/irritation:

Test: Eye Corrosive Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization Positive

e) germ cell mutagenicity:

Test: Mutagenesis Negative

g) reproductive toxicity:

Test: Genotoxicity Positive

Benzotriazole derivatives : EC 400-830-7\* - Index number: 607-176-00-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Notes: OECD- 401

Test: LC50 - Route: Inhalation - Species: Rat > 5.8 mg/L - Duration: 4h - Notes: OCSE-403

b) skin corrosion/irritation:

Test: Skin Irritant Negative

c) serious eye damage/irritation:

Test: Eye Irritant Negative

e) germ cell mutagenicity:

Test: Mutagenesis Negative

f) carcinogenicity:

Test: Carcinogenicity Negative

g) reproductive toxicity:

Test: Reproductive Toxicity Negative

h) STOT-single exposure:

Test: Not specified Negative

i) STOT-repeated exposure:

Test: Not specified Positive - Notes: La somministrazione orale prolungata della sostanza può danneggiare il fegato.

Zirconio 2-etilesanoato - CAS: 22464-99-9

b) skin corrosion/irritation:

Test: Skin Irritant Positive

c) serious eye damage/irritation:

Test: Eye Irritant Negative

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

Xylene - CAS: 1330-20-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 20 mg/L - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 5000 ml/kg

Test: LD50 - Route: Oral - Species: Mouse = 5627 mg/kg

Phosphoric acid >25% - CAS: 7664-38-2

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rat > 1500 mg/kg - Source: ECHA

b) skin corrosion/irritation:

Test: Skin Corrosive - Species: Rabbit Positive - Source: ECHA

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive - Source: ECHA

e) germ cell mutagenicity:

Test: Mutagenesis Negative - Source: ECHA - Notes: OCDE 471

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.

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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.

HYDROCARDONS C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1000 mg/L - Duration h: 48 - Notes: EL0 - Daphnia magna

Endpoint: IC50 - Species: Algae > 1000 mg/L - Duration h: 72 - Notes: EL50 - Pseudokirchneriella subcapitata

Endpoint: LC50 - Species: Fish > 1000 mg/L - Duration h: 96 - Notes: LL50 - Oncorhynchus mykiss

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate - CAS: 41556-26-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.97 mg/L - Duration h: 96 - Notes: Sunfish, OECD 203

Endpoint: EC50 - Species: Daphnia = 20 mg/L - Duration h: 24 - Notes: Daphnia Magna, OECD 202

1-Methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Fish > 100 mg/L - Duration h: 96

Endpoint: EC50 - Species: Algae > 1000 mg/L - Duration h: 72

Endpoint: EC50 - Species: Daphnia > 500 mg/L - Duration h: 48

2-Butanone oxime - CAS: 96-29-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/L - Duration h: 96 - Notes: Oryzias latipes

Endpoint: EC50 - Species: Daphnia = 750 mg/L - Duration h: 48 - Notes: Daphnia magna

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 50 mg/L - Duration h: 336 - Notes: Oryzias latipes

Endpoint: NOEC - Species: Daphnia > 100 mg/L - Duration h: 504 - Notes: Daphnia magna

Endpoint: NOEC - Species: Algae = 2.56 mg/L - Duration h: 72 - Notes: Algae

Benzotriazole derivatives : EC 400-830-7\* - Index number: 607-176-00-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 4 mg/L - Duration h: 48 - Notes: Statico. Il prodotto è poco solubile nel mezzo di prova; è stato provato in una preparazione acquosa con l'aiuto di un solvente intermediario. Concentrazione nominale.

Endpoint: EC50 - Species: Algae > 100 mg/L - Duration h: 72 - Notes: Pseudokirchneriella subcapitata (OECD - 201, static)

Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 82919-37-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.97 mg/L - Duration h: 96 - Notes: Sunfish, OECD 203

Endpoint: EC50 - Species: Daphnia = 20 mg/L - Duration h: 24 - Notes: Daphnia Magna, OECD 202

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

Xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/L - Duration h: 24 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 4.36 mg/L - Duration h: 73 - Notes: Pseudokirchneriella subcapitata

Endpoint: LC50 - Species: Fish = 2.6 mg/L - Duration h: 96 - Notes: Oncorhynchus mykiss

Phosphoric acid >25% - CAS: 7664-38-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish < 100 mg/L - Duration h: 96 - Notes: ECHA

Endpoint: EC50 - Species: Daphnia > 100 mg/L - Duration h: 48 - Notes: OCDE 202, ECHA

Endpoint: EC50 - Species: Algae > 100 mg/L - Duration h: 72 - Notes: OCDE 203, ECHA

#### 12.2. Persistence and degradability

1-Methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Biodegradability: Readily biodegradable - Test: Data not available - Duration: Data not available - %: Data not available - Notes: Data not available

#### 12.3. Bioaccumulative potential

1-Methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Bioaccumulation: Not bioaccumulative - Test: log Kow 0.8 - Duration: Data not available - Notes: Data not available

2-Butanone oxime - CAS: 96-29-7

Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor 0.6 - Duration: Data not available - Notes: exposed MEKO 2mg/l

#### 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

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. 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.



Safety Data Sheet

SECTION 14: Transport information

14.1. UN number	
ADR-UN number:	UN 1263
14.2. UN proper shipping name	
ADR-Shipping Name:	Paint
14.3. Transport hazard class(es)	
ADR-Class:	3
14.4. Packing group	
ADR-Packing Group:	III
14.5. Environmental hazards	
ADR-Environmental Pollutant:	No
14.6. Special precautions for user	
ADR-Tunnel Restriction Code:	D/E
14.7. Transport in bulk according to Annex II of Marpol 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.2004/42/CE. Subcategory i Type BS limit COV 500 g/l. Contained in product < 500 g/l.

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

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.

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)

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)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

Data not available

15.2. Chemical safety assessment

No

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SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

H318 Causes serious eye damage.

H360 May damage fertility or the unborn child if inhaled and in contact with skin.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

H351 Suspected of causing cancer.

H312 Harmful in contact with skin.

H411 Toxic to aquatic life with long lasting effects.

H361 Suspected of damaging fertility or the unborn child if inhaled and in contact with skin.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

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 5: Firefighting measures

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 10: Stability and reactivity

SECTION 11: Toxicological information

## Safety Data Sheet

SECTION 12: Ecological information  
SECTION 13: Disposal considerations  
SECTION 14: Transport 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: Substance with a Union workplace exposure limit.  
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