Safety Data Sheet dated 19/8/2015, version 3

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

1.1. Product identifier

Mixture identification:

Trade name: tema impregnante per legno

Trade code: .441

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)

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:

0.5% - 0.99% 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

990 ppm 3-Iodo-2-propynyl butylcarbamate

CAS: 55406-53-6, EC: 259-627-5

3.1/4/Inhal Acute Tox. 4 H332

3.1/4/Oral Acute Tox. 4 H302

3.3/1 Eye Dam. 1 H318

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

3.8/3 STOT SE 3 H335

4.1/A1 Aquatic Acute 1 H400 M=10.

4.1/C1 Aquatic Chronic 1 H410

8 ppm 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)

Index number: 613-167-00-5, CAS: 55965-84-9
3.2/1B Skin Corr. 1B H314
3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317
4.1/A1 Aquatic Acute 1 H400 M=10.
4.1/C1 Aquatic Chronic 1 H410 M=10.
3.1/3/Oral Acute Tox. 3 H301
3.1/3/Dermal Acute Tox. 3 H311
3.1/3/Inhal Acute Tox. 3 H331

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.

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.

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

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.
Contamined 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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s):

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

OEL EU - LTE(8h): 67.5 mg/m3, 10 ppm - STE: 101.2 mg/m3, 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/m3, 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff

DNEL Values:

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

Worker Professional: 67.5 mg/m3 - 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

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: slightly acrid	--	--
Odour threshold:	Data not available	--	--
pH:	7,5	--	20°C
Melting point / freezing point:	Data not available	--	--
Initial boiling point and boiling range:	Data not available	--	--
Flash point:	Not flammable	--	--
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:	1020 - 1040 g/l	UNI EN ISO 2811-1	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:	32 - 38 s	DIN 53211, 6mm	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
None in particular.
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:
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
3-Iodo-2-propynyl butylcarbamate - CAS: 55406-53-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 300 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
c) serious eye damage/irritation:
Test: Eye Corrosive - Species: Rabbit Positive
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin Positive
i) STOT-repeated exposure:
Test: Respiratory Tract Irritant - Route: Inhalation Positive
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)
- CAS: 55965-84-9
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit = 660 mg/kg
Test: LC50 - Route: Inhalation Aerosols - Species: Rat = 2.36 mg/L - Duration: 4h
d) respiratory or skin sensitisation:
Test: Skin Sensitization Positive
e) germ cell mutagenicity:
Test: Mutagenesis Negative
f) carcinogenicity:
Test: Carcinogenicity Negative
g) reproductive toxicity:
Test: Reproductive Toxicity Negative

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 good working practices, so that the product is not released into the 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
3-Iodo-2-propynyl butylcarbamate - CAS: 55406-53-6
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 0.21 mg/L - Duration h: 48 - Notes: Daphnia magna
Endpoint: IC50 - Species: Algae = 0.026 mg/L - Duration h: 72 - Notes: Desmodesmus subspicatus
Endpoint: LC50 - Species: Fish = 0.43 mg/L - Duration h: 96 - Notes: Danio rerio
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish = 0.0084 mg/L - Duration h: 840 - Notes: pimephales promelas
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)
- CAS: 55965-84-9
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 0.1 mg/L - Duration h: 48 - Notes: Daphnia magna- OECD 202
Endpoint: EC50 - Species: Algae = 0.048 mg/L - Duration h: 72 - Notes: Pseudokirchnella subcapitata- OECD 201 12089
Endpoint: EC50 - Species: Fish = 0.22 mg/L - Duration h: 96 - Notes: Oncorhynchus mykiss- OECD 203

12.2. Persistence and degradability

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)
- CAS: 55965-84-9
Biodegradability: Readily biodegradable - Test: Oxygen consumption - Duration: Data not available - %: Data not available - Notes: OECD 301 D (Closed-Bottle-Test)

12.3. Bioaccumulative potential

3-Iodo-2-propynyl butylcarbamate - CAS: 55406-53-6
Bioaccumulation: Not bioaccumulative - Test: log Kow 2.8 - Duration: Data not available - Notes: Data not available
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)
- CAS: 55965-84-9
Bioaccumulation: Not bioaccumulative - Test: log Kow -0.75 - 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

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.

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-Enviromental Pollutant: No

Data not available

14.6. Special precautions for user

Data not available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Data not available

SECTION 15: Regulatory information

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

DIR.2004/42/CE. Subcategory e Type BA limit COV 130 g/l. Contained in product < 130 g/l.
Regulation (EU) No 528/2012 and subsequent amendments.
This product contains biocides. Active ingredients:
3-iodoprop-2-ynyl N-butylcarbamate (IPBC)
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

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H314 Causes severe skin burns and eye damage.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.

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 6: Accidental release 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
SECTION 12:Ecological information

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