

**LimeSealer Protective Agent** 

Revision nr. 5

Dated 18/3/2015

Printed on 18/03/2015

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# Safety data sheet

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: 072CLIME

Product name LimeSealer Protective Agent

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

1.3. Details of the supplier of the safety data sheet

Name BELLINZONI S.R.L.
Full address Via Don Gnocchi, 4
District and Country 20016 PERO (MI)

Italia

Tel. +39 02-33912133 Fax +39 02-33915224

e-mail address of the competent person

responsible for the Safety Data Sheet laboratorio@bellinzoni.com

Product distribution by BELLINZONI S.r.I.

1.4. Emergency telephone number

For urgent inquiries refer to E.U.: Centro Antiveleni - Ospedale di Niguarda - Milano - Tel. +39 0266101029

U.S.A.: Chemtech +1.800.424.9300 International: +1.703.527.3887

#### **SECTION 2. Hazards identification.**

# 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

# 2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

Flam. Liq. 3 H226 Asp. Tox. 1 H304 STOT SE 3 H336

### 2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols:

Xn

R phrases:

10-65-66-67

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



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#### 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:







Signal words:

Danger

#### Hazard statements:

**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.

### 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 / sparks / open flames / hot surfaces. No smoking.

**P233** Keep container tightly closed.

P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301+P310 Wear protective gloves / protective clothing / eye protection / face protection.
IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

Contains: HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

### 2.3. Other hazards.

Information not available.

# **SECTION 3. Composition/information on ingredients.**

# 3.1. Substances.

Information not relevant.

### 3.2. Mixtures.

Contains:

Identification. Conc. %. Classification 67/548/EEC. Classification 1272/2008 (CLP).

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

CAS. 64742-48-9 85 - 100 R10, R66, R67, Xn R65, Note H P Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066, Note H P

EC. 919-857-5

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Reg. no. 01-2119463258-33



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Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

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**N-BUTYL ACETATE** 

CAS. 123-86-4 EC. 204-658-1

INDEX. 607-025-00-1

Reg. no. 01-2119485493-29

**METHANOL** 

CAS. 67-56-1

EC. 200-659-6

INDEX. 603-001-00-X

0 - 1 F R11, T R23/24/25, T R39/23/24/25

R10, R66, R67

Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370

Note: Upper limit is not included into the range.

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

 $T+ = Very\ Toxic(T+),\ T = Toxic(T),\ Xn = Harmful(Xn),\ C = Corrosive(C),\ Xi = Irritant(Xi),\ O = Oxidizing(O),\ E = Explosive(E),\ F+ = Extremely Flammable(F+),\ F = Highly Flammable(F),\ N = Dangerous for the Environment(N)$ 

### **SECTION 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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

# **SECTION 5. Firefighting measures.**

### 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. 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).

# **SECTION 6. Accidental release measures.**



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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 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.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections.

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

# **SECTION 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. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s).

Information not available.

# **SECTION 8.** Exposure controls/personal protection.

#### 8.1. Control parameters.

Regulatory References:

United Kingdom EH40/2005 Workplace exposure limits. Containing the list of workplace exposure

limits for use with the Control of Substances Hazardous to Health Regulations (as

amended).

Éire Code of Practice Chemical Agent Regulations 2011.

OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive

2000/39/EC.

TLV-ACGIH ACGIH 2012

# ${\bf HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2\% \ AROMATICS}$

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		1200	197			



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Health - Derived no-effect level - DNEL / DMEL  Effects on consumers.  Effects on workers									
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral.			VND	125 mg/m3		·		-	
Inhalation.			VND	900 mg/kg			VND	871 mg/kg	
Skin.			VND	125 mg/kg			VND	208 mg/kg	

N-BUTYL ACETATE Threshold Limit Value. Type	Country	TWA/8h	TIMA (OL		
Туре	Country	mg/m3	ppm	STEL/15min mg/m3	ppm
OEL	IRL	710	150	950	200
TLV-ACGIH		713	150	950	200
WEL	UK	724	150	966	200

METHANOL							
Threshold Limit Value.							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH		262	200	328	250		
WEL	UK	266	200	333	250	SKIN	
OEL	EU	260	200			SKIN	
OEL	IRL	260	200			SKIN	

#### Leaend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

TLV of solvent mixture: 684 mg/m3.

#### 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

#### 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.

# **SECTION 9. Physical and chemical properties.**



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9.1. Information on basic physical and chemical properties.

Appearance liquid Colour transparent Odour characteristic Odour threshold. Not available. Not available. Melting point / freezing point. Not available. Initial boiling point. Not available. Boiling range. Not available. Flash point. 24 °C. Evaporation Rate Not available. Flammability of solids and gases 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. 0,8 Kg/I Solubility insoluble in water Partition coefficient: n-octanol/water Not available.

Partition coefficient: n-octanol/water
Auto-ignition temperature.

Decomposition temperature.

Viscosity

Explosive properties

Oxidising properties

Not available.

Not available.

Not available.

Not available.

Not available.

9.2. Other information.

VOC (Directive 1999/13/EC): 91,39 % - 731,08 g/litre. VOC (volatile carbon): 76,28 % - 610,28 g/litre.

# SECTION 10. Stability and reactivity.

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

N-BUTYL ACETATE: decomposes readily with water, especially when warm.

# 10.2. Chemical stability.

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

# 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

N-BUTYL ACETATE: risk of explosion on contact with: strong oxidising agents. Can react dangerously with alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with the air.

#### 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

N-BUTYL ACETATE: avoid exposure to moisture, sources of heat and naked flames.

### 10.5. Incompatible materials.

N-BUTYL ACETATE: water, nitrates, strong oxidising agents, acids and alkalis and potassium tert-butoxide.

#### 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.

# **SECTION 11. Toxicological information.**

#### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using



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the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

METHANOL: The minimal lethal dose following ingestion is considered to be in the range of 300-1000 mg/kg. Ingestion of as little as 4-10 ml methanol in adults may cause permanent blindness (IPCS).

N-BUTYL ACETATE:in humans the substance's vapours cause irritation to the eues and nose. In the event of repeated exposure, there is skin irritation, dermatosis (with driness and flaking of the skin) and keratitis.

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

LD50 (Oral). > 4951 mg/kg Rat

LD50 (Dermal). > 5000 mg/kg Rabbit

LC50 (Inhalation). > 5000 g/m3 Rat

N-BUTYL ACETATE

LD50 (Oral). > 6400 mg/kg Rat

LD50 (Dermal). > 5000 mg/kg Rabbit

LC50 (Inhalation). 21,1 mg/l/4h Rat

# **SECTION 12. Ecological information.**

#### 12.1. Toxicity.

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS

EC50 - for Crustacea.

1000 mg/l/48h Daphnia Magna

EC50 - for Algae / Aquatic Plants.

> 1000 mg/l/72h Pseudokirchneriella subcapitata

LC10 for Fish.

> 1000 mg/l/96h Oncorhynchus mykiss

#### 12.2. Persistence and degradability.

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS Rapidly biodegradable.

#### 12.3. Bioaccumulative potential.

Information not available.

#### 12.4. Mobility in soil.

Information not available.

### 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.

# **SECTION 13. Disposal considerations.**

#### 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

# **SECTION 14. Transport information.**

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in



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their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

ADR/RID Class: UN: 1263 3

Packing Group: Ш Label: 3 30 Nr. Kemler: Limited Quantity. 5 L Tunnel restriction code. (D/E)

Proper Shipping Name: PAINT or PAINT RELATED MATERIAL

Special Provision: 640E

Carriage by sea (shipping):

IMO Class:

3 UN: 1263

Packing Group: Ш Label: 3

EMS: F-E, S-E

Marine Pollutant. NO

Proper Shipping Name: PAINT or PAINT RELATED MATERIAL

Transport by air:

IATA: 3 UN: 1263

Packing Group: Ш Label: 3

Cargo:

220 I 366 Packaging instructions: Maximum quantity:

Pass.:

Packaging instructions: 355 Maximum quantity: 60 L

**Special Instructions:** A3, A72, A192

PAINT or PAINT RELATED MATERIAL Proper Shipping Name:

# **SECTION 15. Regulatory information.**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture. 6

Seveso category.

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

Product.

3 - 40 Point.

Substances in Candidate List (Art. 59 REACH).



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None.

Substances subject to authorisarion (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.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Product not intended for uses provided for by Dir. 2004/42/CE.

# **SECTION 16. Other information.**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Acute Tox. 3 Acute toxicity, category 3

STOT SE 1 Specific target organ toxicity - single exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1

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

H225 Highly flammable liquid and vapour.H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

**EUH066** Repeated exposure may cause skin dryness or cracking.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10 FLAMMABLE.

R11 HIGHLY FLAMMABLE.



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R23/24/25 TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. R39/23/24/25 TOXIC: DANGER OF VERY SERIOUS IRREVERSIBLE EFFECTS THROUGH

> INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

R66 REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. R67

#### LEGEND:

R65

- 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).

### GENERAL BIBLIOGRAPHY

- 1. Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
   Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EC) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament 8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
- 9. The Merck Index. 10th Edition
- 10. Handling Chemical Safety
- 11. Niosh Registry of Toxic Effects of Chemical Substances
- 12. INRS Fiche Toxicologique (toxicological sheet)
- 13. Patty Industrial Hygiene and Toxicology
- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 15. ECHA website

#### 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.

Changes to previous review:

The following sections were modified: 01 / 02 / 03 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.