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# Safety data sheet

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

1.1. Product identifier

Product name **PLHG** 

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

Intended use Pad Printing hardener.

1.3. Details of the supplier of the safety data sheet

**COMEC ITALIA SRL** Full address Piazzale del Lavoro 149 District and Country 21044 Cavaria (VA) **ITALY** 

> Tel. +39 0331 219516 Fax +39 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet info@comec-italia.it Product distribution by: Edgardo Baggini

1.4. Emergency telephone number

For urgent inquiries refer to CENTRO ANTIVELENI OSPEDALE NIGUARDA MILANO Tel. 02/66101029 (24/24h) -

CENTRO ANTIVELENI POLICLINICO A.GEMELL ROMA Tel. 06/3054343 (24/24h) -

## **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.

Hazard classification and indication:

Acute toxicity, category 4 H332 Harmful if inhaled. Serious eye damage, category 1 H318 Causes serious eye damage.

Skin sensitization, category 1 H317 May cause an allergic skin reaction.

#### 2.2. Label elements

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

Hazard pictograms:





Signal words: Danger

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Hazard statements:

H332 Harmful if inhaled.

H318 Causes serious eye damage.H317 May cause an allergic skin reaction.

Precautionary statements:

**P261** Avoid breathing dust, gas or vapours.

**P280** Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER or a doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.

Contains: Aminoethylamino propyltrimethoxy silane

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

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

#### 3.1. Substances

#### 3.2. Mixtures

Contains:

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

Identification x = Conc. % Classification 1272/2008 (CLP)

Aminoethylamino propyltrimethoxy silane

CAS 1760-24-3 96 ≤ x < 100 Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Sens. 1 H317

EC 217-164-6 INDEX -

Reg. no. 01-2119970215-39-xxxx

**METHANOL** 

CAS 67-56-1  $0.1 \le x < 0.9$  Flam. Liq. 2 H225, Acute Tox.

3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE

1 H370

EC 200-659-6 INDEX 603-001-00-X

## **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

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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. 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

Specific information on symptoms and effects caused by the product are unknown.

#### 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
Choose the most appropriate extinguishing equipment for the specific case.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE The product is neither flammable nor combustible.

#### 5.3. Advice for firefighters

## 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**

## 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

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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. If the product is flammable, use explosion-proof equipment. 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. 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

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# Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА
		МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30
	×	декември 2003 г
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en
		España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas
	· ·	em matéria de protecção dos trabalhadores contra os riscos para a
		segurança e a saúde devido à exposição a agentes químicos no trabalho -
		Diaro da Republica I 26; 2012-02-06
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
EU	OEL EU	Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC;
		Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2016

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,062	mg/l	
Normal value in marine water	0,0062	mg/l	
Normal value for fresh water sediment	0,22	mg/kg	
Normal value for marine water sediment	0,022	mg/kg	
Normal value for water, intermittent release	0,62	mg/l	
Normal value of STP microorganisms	25	mg/l	
Normal value for the terrestrial compartment	0,0085	mg/kg	
Health Davis and a street level DNEL / DMEL			

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers Acute local	Acute systemic	Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic local	Chronic
'		•		systemic		systemic		systemic
Inhalation	NPI	NPI	VND	8,7 mg/m3	NPI	NPI	VND	35,3 mg/m3
Skin	VND	17 mg/kg bw/d	VND	2,5 mg/kg bw/d	VND	5 mg/kg bw/d	VND	5 mg/kg bw/d

<b>METHANO</b>
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Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	50				SKIN
TLV	CZE	250		1000		SKIN
AGW	DEU	270	200	1080	800	SKIN
MAK	DEU	270	200	1080	800	SKIN
TLV	DNK	260	200			
VLA	ESP	266	200			SKIN
VLEP	FRA	260	200	1300	1000	SKIN
WEL	GBR	266	200	333	250	SKIN

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VIED	IT A	000	200			CIZINI		
VLEP	ITA	260	200			SKIN		
NDS	POL	100		300				
VLE	PRT	260	200			SKIN		
MAK	SWE	250	200	350	250	SKIN		
OEL	EU	260	200			SKIN		
TLV-ACGIH		262	200	328	250			
Predicted no-effect concentra	ation - PNEC							
Normal value for fresh water s Normal value for water, intern Normal value of STP microord Normal value for the terrestria	Normal value in fresh water  Normal value in marine water  15,4  Normal value for fresh water sediment  Normal value for water, intermittent release  Normal value of STP microorganisms  Normal value for the terrestrial compartment  23,5				mg/l mg/l mg/k mg/l mg/l mg/k	-		
Health - Derived no-effe		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
Inhalation Skin	50 mg/m3 VND	50 mg/m3 8 mg/kg/d	50 mg/m3 VND	50 mg/m3 8 mg/kg/d	260 mg/m3 VND	260 mg/m3 40 mg/kg/d	260 mg/m3 VND	260 mg/m3 40 mg/kg/d

Legend:

(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.

#### 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.

Provide an emergency shower with face and eye wash station.

#### 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 II 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.

#### EYE PROTECTION

Wear a hood visor or protective visor combined with airtight 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 B 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.

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#### **ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

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

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

Appearance liauid Colour straw yellow Odour amino Odour threshold Not available 10 @20°C Melting point / freezing point -20 °C 259 °C Initial boiling point Boiling range Not available Flash point 138 °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 >1

Relative density 1,03 Solubility immiscible Partition coefficient: n-octanol/water Not available Auto-ignition temperature > 300 °C Decomposition temperature Not available 6 mPass@20°C Viscosity Explosive properties Not available Oxidising properties Not available

#### 9.2. Other information

Total solids (250°C / 482°F) 99,50 %

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

### 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.

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#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Information not available

#### 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**

Aminoethylamino propyltrimethoxy silane Acute Oral Toxicity: LD 50 rat> 2000 mg / kg Acute dermal toxicity: LD 50 rabbit>2000 mg / kg.

#### 11.1. Information on toxicological effects

Aminoethylamino propyltrimethoxy silane

Irritating to skin: Rabbit, no skin irritation OECD TG 404 Irritating to eyes: Rabbit, highly irritating OECD TG 405

Sensitization: guinea pig, positive. May cause sensitization by skin contact, OECD 429 (LLNA) Repeated dose toxicity: Oral rat, NOEL >= 500 mg/Kg (28 gg), OECD 422.

## Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

METHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

Interactive effects

Information not available

**ACUTE TOXICITY** 

LC50 (Inhalation - vapours) of the mixture:10,72 mg/l

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component)

LD50 (Oral) of the mixture:>2000 mg/kg

LD50 (Dermal) of the mixture:>2000 mg/kg

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Aminoethylamino propyltrimethoxy silane 2995 mg/kg Rat LD50 (Oral) > 2000 mg/kg Rabbit LD50 (Dermal) 1.49 mg/l/4h Ratto / Rat LC50 (Inhalation)

METHANOL

> 1000 mg/kg Ratto / Rat

LD50 (Oral)

11700 mg/kg Coniglio / Rabbit

LD50 (Dermal)

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

**ASPIRATION HAZARD** 

Does not meet the classification criteria for this hazard class

## **SECTION 12. Ecological information**

## 12.1. Toxicity

Aminoethylamino propyltrimethoxy silane

Toxicity to algae: CE50, Pseudokirchneriella subcapitata, 8,8 mg/l (96h)

NOEC, Pseudokirchneriella subcapitata, 3,1 mg/l.

Aminoethylamino propyltrimethoxy silane

LC50 - for Fish 597 mg/l/96h Lepomis macrochirus

EC50 - for Crustacea 81 mg/l/48h EC50 - for Algae / Aquatic 126 mg/l/72h

Plants

LC10 for Fish 344 mg/l/96h

**METHANOL** 

15400 mg/l/96h LC50 - for Fish EC50 - for Crustacea > 10000 mg/l/48h

## 12.2. Persistence and degradability

Aminoethylamino propyltrimethoxy silane NOT rapidly degradable

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**METHANOL** 

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

## 12.3. Bioaccumulative potential

**METHANOL** 

Partition coefficient: n- -0,77

octanol/water

BCF 0,2

#### 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.

CONTAMINATED PACKAGING

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

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

## 14.1. UN number

Not applicable

## 14.2. UN proper shipping name

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Not applicable	
14.2 Transport hazard alace(co)	
14.3. Transport hazard class(es)	
Not applicable	
14.4. Packing group	
Not applicable	
14.5. Environmental hazards	
14.5. Environmental nazarus	
Not applicable	
14.6. Special precautions for user	
Not applicable	
44.7. Transport in bulk according to Anney II of Marriel and the IRC Code	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Information not relevant	
SECTION 15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Seveso Category - Directive 2012/18/EC: None	
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006	
Product	
Point 3	
Substances in Candidate List (Art. 59 REACH)	
On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.	
Substances subject to authorisarion (Annex XIV REACH)	
None	
None	

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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.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

## **SECTION 16. Other information**

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

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

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

Acute Tox. 4Acute toxicity, category 4Eye Dam. 1Serious eye damage, category 1Skin Sens. 1Skin sensitization, category 1H225Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H332 Harmful if inhaled.

H318 Causes serious eye damage.H317 May cause an allergic skin reaction.

#### LEGEND:

- 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%

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- 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. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament

- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
   Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
   Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

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:

02 / 03 / 04 / 08 / 09 / 11 / 12.