

# SAFETY DATA SHEET

ALSAN 105

Version: 621a

Review date: 16/01/2017

RE EC/830/2015 - ISO 11014-1

## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1. 1. Product identifier: ALSAN 105
1. 1. 1. Contains:
- 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate [4]
  - benzoyl chloride
  - methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate
  - n-butyl methacrylate
1. 1. 2. EC number: Not applicable.
1. 2. Relevant identified uses of the substance or mixture and uses advised against: Seal coat (primer)
1. 3. Details of the supplier of the safety data sheet: SOPREMA S.A.S.  
14 Rue de Saint Nazaire - CS 60121  
F-67025 STRASBOURG CEDEX  
France  
Phone: +33 (0)3 88 79 84 00  
Fax: +33 (0)3 88 79 84 01  
E-mail: mkulinicz@soprema.fr
1. 4. Emergency telephone number: UK - National Poisons Information Service Phone: 44 / 191 22 5131  
INTERNATIONAL EMERGENCY NUMBER : + 44 (0)1 235 239 670  
.
1. 5. Product code nr: 7439.1

## 2. HAZARDS IDENTIFICATION

2. 1. Classification of the substance or mixture:
- \* Flam. Liq. 2 / GHS02 - H225 \*
  - \* Carc. 2 / GHS08 - H351 \*
  - \* STOT SE 3 / GHS07 - H335 \*
  - \* STOT SE 3 / GHS07 - H336 \*
  - \* STOT RE 2 / GHS08 - H373 \*
  - \* Skin Irrit. 2 / GHS07 - H315 \*
  - \* Irr. oc. 2A / GHS07 - H319 \*
  - \* Skin Sens. 1 / GHS07 - H317 \*
  - \* Resp. Sens. 1 / GHS08 - H334 \*

### 2. 2. Label elements:



Danger

#### 2. 2. 1. Symbol(s) and signal word:

.

#### 2. 2. 2. Hazard statement:

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H335-336 May cause respiratory irritationMay cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.

#### 2. 2. 3. Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof [electrical / ventilating / lighting / ...] equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P273 Avoid release to the environment.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.  
P284 In case of inadequate ventilation wear respiratory protection.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.

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### 2. 2. 4. Response:

P271 Use only outdoors or in a well-ventilated area.  
P260 Do not breathe dust / fume / gas / mist / vapours / spray.  
P303 IF ON SKIN (or hair):  
P361 Take off immediately all contaminated clothing.  
P353 Rinse skin with water / shower.  
P370 In case of fire:  
P378 Use powder, AFFF, foam, carbon dioxide to extinguish.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P321a Specific treatment (see item nr 4.3.).  
P332+P313 If skin irritation occurs: Get medical advice / attention.  
P362 Take off contaminated clothing.  
P364 And wash it before reuse.  
P305 IF IN EYES:  
P351 Rinse cautiously with water for several minutes.  
P338 Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice / attention.  
P304 IF INHALED:  
P340 Remove person to fresh air and keep comfortable for breathing.  
P342 If experiencing respiratory symptoms:  
P311a Call a POISON CENTER / doctor.  
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.  
P308+P313 IF exposed or concerned: Get medical advice / attention.  
P312a Call a POISON CENTER / doctor if you feel unwell.  
P314 Get medical advice / attention if you feel unwell.

### 2. 2. 5. Storage:

P403 Store in a well-ventilated place.  
P235 Keep cool.  
P405 Store locked up.  
P233 Keep container tightly closed.

### 2. 2. 6. Disposal:

P501a Dispose of contents / container in accordance with local / regional / national / international regulation

### 2. 3. Further information(s):

EUH 066 - Repeated exposure may cause skin dryness or cracking.

EUH208 Contains • 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate [4], • benzoyl chloride. May produce an allergic reaction.

### 2. 4. Other hazards:

Highly flammable liquid and vapour.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3. 1. Component(s) contributing to the hazard:

- butanone; ethyl methyl ketone  
- Id nr: 606-002-00-3 - CE nr: 201-159-0 - CAS nr: 78-93-3  
- Conc. (weight %) : 10 < C ≤ 30  
- GHS (Globally Harmonized System)  
\* GHS02 - Flame - Danger - Flam. Liq. 2 - H225  
\* GHS07 - Exclamation mark - Warning - STOT SE 3 - H336 - Irr. oc. 2 - H319  
- Miscellaneous :  
VME ppm = 200 - VME mg/m<sup>3</sup> = 600 - VLE ppm = 300 - VLE mg/m<sup>3</sup> = 900
- 2-methoxy-1-methylethyl acetate  
- Id nr: 607-195-00-7 - CE nr: 203-603-9 - CAS nr: 108-65-6  
- Conc. (weight %) : 10 < C ≤ 30  
- GHS (Globally Harmonized System)  
\* GHS02 - Flame - Warning - Flam. Liq. 3 - H226  
- Miscellaneous :  
VME ppm = 50 - VME mg/m<sup>3</sup> = 275 - VLE ppm = 100 - VLE mg/m<sup>3</sup> = 550
- 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate [4]  
- Id nr: 615-005-00-9 - CAS nr: 25686-28-6  
- Conc. (weight %) : 10 < C ≤ 30  
- GHS (Globally Harmonized System)  
\* GHS07 - Exclamation mark - Warning - Acute Tox. 4 - H332 \* GHS08 - Health hazard - Danger - Resp. Sens. 1 - H334 - Skin Sens. 1 - H317 - STOT SE 3 - H335 - Skin Irrit. 2 - H315 - Irr. oc. 2 - H319 - Carc. 2 - H351  
- (Eye Irrit.: H319: C ≥ 5% - STOT SE 3: H335: C ≥ 5% - Skin Irrit. 2: H315: C ≥ 5% - Resp. Sens: H334: C ≥ 0,1%)  
- Miscellaneous :

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VME ppm = 0,005 - VME mg/m<sup>3</sup> = 0,051

- 2-methoxy-1-methylethyl acetate
  - Id nr: 607-195-00-7 - CE nr: 203-603-9 - CAS nr: 108-65-6
  - Conc. (weight %) : 0 < C ≤ 1
  - GHS (Globally Harmonized System)

\* GHS02 - Flame - Warning - Flam. Liq. 3 - H226

- Miscellaneous :

VME ppm = 50 - VME mg/m<sup>3</sup> = 275 - VLE ppm = 100 - VLE mg/m<sup>3</sup> = 550

- benzoyl chloride
  - Id nr: 607-012-00-0 - CE nr: 202-710-8 - CAS nr: 98-88-4
  - Conc. (weight %) : 0 < C ≤ 1
  - GHS (Globally Harmonized System)

\* GHS07 - Exclamation mark - Warning - Skin Sens. 1 - H317 \* GHS05 - Corrosion - Danger - Skin Corr. 1B - H314

- o-xylene [1]; p-xylene [2]; m-xylene [3]; xylene [4]
  - Id nr: 601-022-00-9 - CE nr: 215-535-7 - CAS nr: 1330-20-7
  - Conc. (weight %) : 0 < C ≤ 1
  - GHS (Globally Harmonized System)

\* GHS02 - Flame - Warning - Flam. Liq. 3 - H226

\* GHS07 - Exclamation mark - Warning - Acute Tox. 4 - H312 - H332 - Skin Irrit. 2 - H315

- ((\*))

- Miscellaneous :

VME ppm = 50 - VME mg/m<sup>3</sup> = 221 - VLE ppm = 100 - VLE mg/m<sup>3</sup> = 442

- methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate
  - Id nr: 607-035-00-6 - CE nr: 201-297-1 - CAS nr: 80-62-6
  - Conc. (weight %) : 0 < C ≤ 1
  - GHS (Globally Harmonized System)

\* GHS02 - Flame - Danger - Flam. Liq. 2 - H225

\* GHS07 - Exclamation mark - Warning - Skin Sens. 1 - H317 - STOT SE 3 - H335 - Skin Irrit. 2 - H315

- Miscellaneous :

VME ppm = 50

- n-butyl methacrylate
  - Id nr: 607-033-00-5 - CE nr: 202-615-1 - CAS nr: 97-88-1
  - Conc. (weight %) : 0 < C ≤ 1
  - GHS (Globally Harmonized System)

\* GHS02 - Flame - Warning - Flam. Liq. 3 - H226

\* GHS07 - Exclamation mark - Warning - Skin Sens. 1 - H317 - STOT SE 3 - H335 - Skin Irrit. 2 - H315 - Irr. oc. 2 - H319

- Miscellaneous :

VME ppm = 10 - VLE ppm = 59

The wording of the sentences are mentioned at heading 16.

## 4. FIRST AID MEASURES

### 4. 1. Description of first aid measures:

#### 4. 1. 1. General advice:

In case of doubt or persistent symptoms, consult always a physician.

#### 4. 1. 2. Inhalation:

Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth.

#### 4. 1. 3. Skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.

#### 4. 1. 4. Eye contact:

Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.

#### 4. 1. 5. Ingestion:

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### 4. 2. Most important symptoms and effects, both acute and delayed:

Repeated or prolonged exposure may cause:

Respiratory tract irritation

The mixture is a sensitizing of the skin and the breathing apparatus. It is also irritating for the skin and a prolonged contact can increase this effect.  
eye irritation

#### 4. 2. 1. Inhalation:

High concentration of vapours may induce:

\* May cause shortness of breath, tightness of the chest, a sore throat and cough.

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- \* May cause sensitisation by inhalation and skin contact.
4. 2. 2. Skin contact: May cause sensitisation by skin contact.  
May cause skin irritation / dermatitis.  
Intensive skin contact, may cause skin problems (contact dermatitis).
4. 2. 3. Eyes contact: Liquid splashes in the eye may cause irritation.
4. 2. 4. Ingestion: Symptoms of poisoning may not appear for several hours. Irritation of mucous membranes
4. 3. Indication of any immediate medical attention and special treatment needed : In all cases of doubt, or when symptoms persist, seek medical attention.

## 5. FIREFIGHTING MEASURES

5. 1. Extinguishing media: powder, AFFF, foam, carbon dioxide
5. 2. Special hazards arising from the substance or mixture: Fire will produce dense black smoke.  
Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required.
5. 3. Advice for firefighters: special protective equipment for fire-fighters
5. 4. Specific method(s): Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
5. 5. Extinguishing media which must NOT be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

## 6. ACCIDENTAL RELEASE MEASURES

6. 1. Personal precautions, protective equipment and emergency procedures: Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Concerning personal protective equipment to use, see item 8. Evacuate danger area.
6. 2. Environmental precautions: Dike and contain spill. Do not allow to enter drains or water courses.
6. 3. Methods and material for containment and cleaning up: Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
6. 4. Reference to other sections: Concerning personal protective equipment to use, see item 8.  
Concerning product toxicity, see item 11 and about product stability and reactivity see item 10.  
Concerning disposal elimination after cleaning, see item 13.

## 7. HANDLING AND STORAGE

7. 1. Handling:
7. 1. 1. Precautions for safe handling: Smoking, eating and drinking is prohibited in areas of storage and use.  
Provide sufficient air exchange and/or exhaust.  
Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit (see 8). People with over sensitivity problems are not allowed to work or be exposed to product.
7. 1. 2. Technical condition(s): The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
7. 1. 3. Safe handling advice(s): Do not mix with: copper
7. 2. Storage:
7. 2. 1. Conditions for safe storage, including any incompatibilities: Keep locked up and out of the reach of children. No smoking. Prevent unauthorised access. Observe the label precautions.
7. 2. 2. Technical condition(s): Waterproof underground retention basin.
7. 2. 3. Storage condition(s): Store locked up. Store in a dry, cool and well-ventilated place. Containers which are opened should be properly resealed and kept upright to prevent leakage.
7. 2. 4. Separation of incompatible product(s): Keep away from combustible materials, reducing agents (e.g. amines), acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps).
7. 2. 5. Packaging / tank material: made of the same material as the supply container.
7. 2. 6. Unsuitable packaging materials: copper

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7. 3. Specific end use(s): Seal coat (primer)

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8. 1. Control parameters:

8. 1. 1. Exposure limit(s):

- butanone; ethyl methyl ketone : VME ppm = 200 - VME mg/m<sup>3</sup> = 600 - VLE ppm = 300 - VLE mg/m<sup>3</sup> = 900
- 2-methoxy-1-methylethyl acetate : VME ppm = 50 - VME mg/m<sup>3</sup> = 275 - VLE ppm = 100 - VLE mg/m<sup>3</sup> = 550
- 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate [4] : VME ppm = 0,005 - VME mg/m<sup>3</sup> = 0,051
- 2-methoxy-1-methylethyl acetate : VME ppm = 50 - VME mg/m<sup>3</sup> = 275 - VLE ppm = 100 - VLE mg/m<sup>3</sup> = 550
- o-xylene [1]; p-xylene [2]; m-xylene [3]; xylene [4] : VME ppm = 50 - VME mg/m<sup>3</sup> = 221 - VLE ppm = 100 - VLE mg/m<sup>3</sup> = 442
- methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate : VME ppm = 50
- n-butyl methacrylate : VME ppm = 10 - VLE ppm = 59

8. 1. 2. Engineering measure(s): Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust.

8. 2. Exposure controls:

8. 2. 1. Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust.

8. 2. 2. Hand protection: solvent-resistant gloves, nitrile rubber gloves

8. 2. 3. Skin and body protection: Cotton or cotton/synthetic overalls or coveralls are normally suitable.

8. 2. 4. Eye protection: Eye protection designed to protect against liquid splashes should be worn.

8. 2. 5. Personal protection equipment: Avoid contact with skin, eyes and clothing.

8. 2. 6. Recommended monitoring procedures: Allergic persons, and particularly those suffering from asthma or other respiratory conditions, should not work with product.

8. 3. Hygiene measure(s): Wash hands and face before break and at end of works. Keep away from food, drink and animal feed.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

9. 1. Information on basic physical and chemical properties:

9. 1. 1. Appearance: liquid

9. 1. 2. Colour: blue

9. 1. 3. Odour: characteristic

9. 1. 4. PH: Not applicable.

9. 1. 5. Boiling point/range: > 35 °C

9. 1. 6. Melting point/range: Not determined.

9. 1. 7. Flash point: -4 °C

9. 1. 8. Explosion limits: Not determined.

9. 1. 9. Vapour pressure: 16,16 kPa (50 °C)

9. 1. 10. Relative density (water = 1): 0.97

9. 1. 11. Bulk density: 0,97 g/cm<sup>3</sup>

9. 1. 12. Viscosity: 50 mPa.s

9. 2. Other information:

9. 2. 1. Water solubility: Not determined.

9. 2. 2. Fat solubility: Not determined.

9. 2. 3. Solvent solubility: Not determined.

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9. 3. Other information: COV (Suisse) : 466 g/L

## 10. STABILITY AND REACTIVITY

10. 1. Reactivity: Stable under the recommended storage and handling conditions. (See Section 7).
10. 2. Chemical stability: Stable in use and storage conditions as recommended in item 7.
10. 3. Possibility of hazardous reactions: Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts slowly with water resulting in evolution of carbon dioxide.
10. 4. Conditions to avoid: Keep container tightly closed and dry.
10. 5. Incompatible materials: Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
10. 6. Hazardous decomposition products: In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

## 11. TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological effects: There is no data available on the product itself.
11. 2. Acute toxicity:
11. 2. 1. Inhalation: Not applicable.
11. 2. 2. Skin contact: Not applicable.
11. 2. 3. Eyes contact: Not applicable.
11. 2. 4. Ingestion: Not applicable.

## 12. ECOLOGICAL INFORMATION

12. 1. Toxicity: Ecological problems are not known or expected under normal use.
12. 2. Persistence and degradability: Not determined.
12. 3. Bioaccumulative potential: Not determined.
12. 4. Mobility in soil: Not determined.
12. 5. Results of PBT and vPvB assessment: Not determined.
12. 6. Other adverse effects: Not determined.
12. 6. 1. Toxicity to fish: Not determined.
12. 7. General information(s): There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

## 13. DISPOSAL CONSIDERATIONS

13. 1. Waste treatment methods: Collect all waste in suitable and labelled containers and dispose according to local legislation. Dispose of brushes and rags used as hazardous waste.
13. 2. Contaminated packaging: Container remains hazardous when empty. Continue to observe all precautions.
13. 3. Further Information(s): Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

14. 1. General information(s): Transport followed ADR, IMDG, IATA
14. 2. UN number: 1263
14. 2. 1. UN proper shipping name: PAINT
14. 3. Land (Road / Railway: ADR/RID):
14. 3. 1. Transport hazard class(es): 3
14. 3. 2. Packing group: II
14. 3. 3. Tunnel restriction code: (D/E)

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## 14. 4. Sea (IMDG):

- |                             |          |
|-----------------------------|----------|
| 14. 4. 1. Class:            | 3        |
| 14. 4. 2. Packaging group:  | II       |
| 14. 4. 3. Marine pollutant: | Non / No |

## 14. 5. Air (ICAO/IATA):

- |                            |    |
|----------------------------|----|
| 14. 5. 1. ICAO/IATA class: | 3  |
| 14. 5. 2. Packing group:   | II |

14. 6. Environmental hazards: Not applicable.

14. 7. Special precautions for user: En cas de déversement accidentel, voir le paragraphe 6

14. 8. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

## 15. REGULATORY INFORMATION

15. 1. Safety, health and environmental regulations/legislation specific for the substance or mixture: EC 1907-2006 regulation  
EC 1272-2008 regulation  
EC 790-2009 regulation  
EC 453-2010 regulation

15. 2. Chemical safety assessment: Not applicable.

## 16. OTHER INFORMATION

16. 1. Text of the phrases listed in section 3:

H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.  
H314 Causes severe skin burns and eye damage.  
H225 Highly flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H318 Causes serious eye damage.  
H312 Harmful in contact with skin.  
H360 May damage fertility or the unborn child <state specific effect if known > <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

16. 2. Important remarks: As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.  
The user is always responsible for ensuring that the requirements of relevant legislation are complied with.  
It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users.

## 16. 3. History:

16. 3. 1. First edition date: 16/01/2017

16. 3. 2. Version: 621a

16. 4. Written by: SOPREMA (mkulinicz@soprema.fr)