

## TIGACOL A-98

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier:** TIGACOL A-98

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

Relevant uses: Adhesive. For professional user/industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

**1.3 Details of the supplier of the safety data sheet:**

EFSTATHIOS TIGKAS & CO. EE  
PEFKON (PAR. AGIOU POLYKARPOU 49)  
11855 ATHENS - GREECE  
Phone. +302103458549 - Fax +302103474901  
[Stathistigas1970@gmail.com](mailto:Stathistigas1970@gmail.com), [www.tigacol.gr](http://www.tigacol.gr)

**1.4 Emergency telephone number:** +302107793777

### SECTION 2: HAZARDS IDENTIFICATION \*\*

**2.1 Classification of the substance or mixture:**

**CLP Regulation (EC) No 1272/2008:**

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Carc. 2: Carcinogenicity, Category 2, H351

Eye Irrit. 2: Eye irritation, Category 2, H319

Flam. Liq. 2: Flammable liquids, Category 2, H225

Repr. 2: Reproductive toxicity, Category 2, H361d

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

**2.2 Label elements:**

**CLP Regulation (EC) No 1272/2008:**

**Danger**



**Hazard statements:**

Carc. 2: H351 - Suspected of causing cancer

Eye Irrit. 2: H319 - Causes serious eye irritation

Flam. Liq. 2: H225 - Highly flammable liquid and vapour

Repr. 2: H361d - Suspected of damaging the unborn child.

STOT SE 3: H336 - May cause drowsiness or dizziness

**Precautionary statements:**

P201: Obtain special instructions before use

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

P280: Wear protective gloves/protective clothing/eye protection/face protection

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

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

Continue rinsing

P308+P313: IF exposed or concerned: Get medical advice/attention

P370+P378: In case of fire: Use ABC powder extinguisher to extinguish

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

**Supplementary information:**

EUH066: Repeated exposure may cause skin dryness or cracking

**Substances that contribute to the classification**

Acetone; Dichloromethane; Toluene; Butanone

**2.3 Other hazards:**

Product fails to meet PBT/vPvB criteria

\*\* Changes with regards to the previous version

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## TIGACOL A-98

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

#### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

**Chemical description:** Mixture composed of additives, pigments and resins in solvents

#### Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification                                                                        | Chemical name/Classification         |                                                                                                                                                                                        | Concentration  |
|---------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| CAS: 67-64-1<br>EC: 200-662-2<br>Index: 606-001-00-8<br>REACH: 01-2119471330-49-XXXX  | <b>Acetone<sup>(1)</sup></b>         | ATP CLP00<br>Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger                                                                             | 46 - <99 %     |
| CAS: 75-09-2<br>EC: 200-838-9<br>Index: 602-004-00-3<br>REACH: 01-2119480404-41-XXXX  | <b>Dichloromethane<sup>(1)</sup></b> | ATP CLP00<br>Regulation 1272/2008 Carc. 2: H351 - Warning                                                                                                                              | 4,9 - <9,9 %   |
| CAS: 108-88-3<br>EC: 203-625-9<br>Index: 601-021-00-3<br>REACH: 01-2119471310-51-XXXX | <b>Toluene<sup>(1)</sup></b>         | ATP CLP00<br>Regulation 1272/2008 Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger                                | 4,9 - <9,9 %   |
| CAS: 78-93-3<br>EC: 201-159-0<br>Index: 606-002-00-3<br>REACH: 01-2119457290-43-XXXX  | <b>Butanone<sup>(1)</sup></b>        | ATP CLP00<br>Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger                                                                             | 2,4 - <4,9 %   |
| CAS: 108-94-1<br>EC: 203-631-1<br>Index: 606-010-00-7<br>REACH: 01-2119453616-35-XXXX | <b>Cyclohexanone<sup>(2)</sup></b>   | ATP CLP00<br>Regulation 1272/2008 Acute Tox. 4: H332; Flam. Liq. 3: H226 - Warning                                                                                                     | 0,09 - <0,24 % |
| CAS: 108-88-3<br>EC: 203-625-9<br>Index: 601-021-00-3<br>REACH: 01-2119471310-51-XXXX | <b>Toluene<sup>(1)</sup></b>         | Self-classified<br>Regulation 1272/2008 Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger | 0,09 - <0,24 % |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

<sup>(2)</sup> Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**\*\* Changes with regards to the previous version**

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

##### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

##### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

##### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

##### By ingestion/aspiration:

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### SECTION 4: FIRST AID MEASURES (continued)

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>). IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

##### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

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### SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

**C.- Technical recommendations to prevent ergonomic and toxicological risks**

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

**A.- Technical measures for storage**

Store in a cool, dry, well-ventilated location

**B.- General conditions for storage**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

| Identification                                |  | Environmental limits |         |                        |
|-----------------------------------------------|--|----------------------|---------|------------------------|
| Acetone<br>CAS: 67-64-1 EC: 200-662-2         |  | IOELV (8h)           | 500 ppm | 1210 mg/m <sup>3</sup> |
|                                               |  | IOELV (STEL)         |         |                        |
| Dichloromethane<br>CAS: 75-09-2 EC: 200-838-9 |  | IOELV (8h)           | 100 ppm | 353 mg/m <sup>3</sup>  |
|                                               |  | IOELV (STEL)         | 200 ppm | 706 mg/m <sup>3</sup>  |
| Toluene<br>CAS: 108-88-3 EC: 203-625-9        |  | IOELV (8h)           | 50 ppm  | 192 mg/m <sup>3</sup>  |
|                                               |  | IOELV (STEL)         | 100 ppm | 384 mg/m <sup>3</sup>  |
| Butanone<br>CAS: 78-93-3 EC: 201-159-0        |  | IOELV (8h)           | 200 ppm | 600 mg/m <sup>3</sup>  |
|                                               |  | IOELV (STEL)         | 300 ppm | 900 mg/m <sup>3</sup>  |
| Cyclohexanone<br>CAS: 108-94-1 EC: 203-631-1  |  | IOELV (8h)           | 10 ppm  | 40.8 mg/m <sup>3</sup> |
|                                               |  | IOELV (STEL)         | 20 ppm  | 81.6 mg/m <sup>3</sup> |
| Toluene<br>CAS: 108-88-3 EC: 203-625-9        |  | IOELV (8h)           | 50 ppm  | 192 mg/m <sup>3</sup>  |
|                                               |  | IOELV (STEL)         | 100 ppm | 384 mg/m <sup>3</sup>  |

#### DNEL (Workers):

| Identification                                   |            | Short exposure        |                        | Long exposure          |                |
|--------------------------------------------------|------------|-----------------------|------------------------|------------------------|----------------|
|                                                  |            | Systemic              | Local                  | Systemic               | Local          |
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2         | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable |
|                                                  | Dermal     | Non-applicable        | Non-applicable         | 186 mg/kg              | Non-applicable |
|                                                  | Inhalation | Non-applicable        | 2420 mg/m <sup>3</sup> | 1210 mg/m <sup>3</sup> | Non-applicable |
| Dichloromethane<br>CAS: 75-09-2<br>EC: 200-838-9 | Oral       | Non-applicable        | Non-applicable         | Non-applicable         | Non-applicable |
|                                                  | Dermal     | Non-applicable        | Non-applicable         | 4750 mg/kg             | Non-applicable |
|                                                  | Inhalation | 706 mg/m <sup>3</sup> | Non-applicable         | 353 mg/m <sup>3</sup>  | Non-applicable |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification                                  |            | Short exposure        |                       | Long exposure         |                       |
|-------------------------------------------------|------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                                 |            | Systemic              | Local                 | Systemic              | Local                 |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9       | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
|                                                 | Dermal     | Non-applicable        | Non-applicable        | 384 mg/kg             | Non-applicable        |
|                                                 | Inhalation | 384 mg/m <sup>3</sup> | 384 mg/m <sup>3</sup> | 192 mg/m <sup>3</sup> | 192 mg/m <sup>3</sup> |
| Butanone<br>CAS: 78-93-3<br>EC: 201-159-0       | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
|                                                 | Dermal     | Non-applicable        | Non-applicable        | 1161 mg/kg            | Non-applicable        |
|                                                 | Inhalation | Non-applicable        | Non-applicable        | 600 mg/m <sup>3</sup> | Non-applicable        |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1 | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
|                                                 | Dermal     | 4 mg/kg               | Non-applicable        | 4 mg/kg               | Non-applicable        |
|                                                 | Inhalation | 80 mg/m <sup>3</sup>  | 80 mg/m <sup>3</sup>  | 40 mg/m <sup>3</sup>  | 40 mg/m <sup>3</sup>  |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9       | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable        |
|                                                 | Dermal     | Non-applicable        | Non-applicable        | 384 mg/kg             | Non-applicable        |
|                                                 | Inhalation | 384 mg/m <sup>3</sup> | 384 mg/m <sup>3</sup> | 192 mg/m <sup>3</sup> | 192 mg/m <sup>3</sup> |

**DNEL (General population):**

| Identification                                   |            | Short exposure        |                       | Long exposure          |                        |
|--------------------------------------------------|------------|-----------------------|-----------------------|------------------------|------------------------|
|                                                  |            | Systemic              | Local                 | Systemic               | Local                  |
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2         | Oral       | Non-applicable        | Non-applicable        | 62 mg/kg               | Non-applicable         |
|                                                  | Dermal     | Non-applicable        | Non-applicable        | 62 mg/kg               | Non-applicable         |
|                                                  | Inhalation | Non-applicable        | Non-applicable        | 200 mg/m <sup>3</sup>  | Non-applicable         |
| Dichloromethane<br>CAS: 75-09-2<br>EC: 200-838-9 | Oral       | Non-applicable        | Non-applicable        | 0,06 mg/kg             | Non-applicable         |
|                                                  | Dermal     | Non-applicable        | Non-applicable        | 2395 mg/kg             | Non-applicable         |
|                                                  | Inhalation | 353 mg/m <sup>3</sup> | Non-applicable        | 88,3 mg/m <sup>3</sup> | Non-applicable         |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | Oral       | Non-applicable        | Non-applicable        | 8,13 mg/kg             | Non-applicable         |
|                                                  | Dermal     | Non-applicable        | Non-applicable        | 226 mg/kg              | Non-applicable         |
|                                                  | Inhalation | 226 mg/m <sup>3</sup> | 226 mg/m <sup>3</sup> | 56,5 mg/m <sup>3</sup> | 56,5 mg/m <sup>3</sup> |
| Butanone<br>CAS: 78-93-3<br>EC: 201-159-0        | Oral       | Non-applicable        | Non-applicable        | 31 mg/kg               | Non-applicable         |
|                                                  | Dermal     | Non-applicable        | Non-applicable        | 412 mg/kg              | Non-applicable         |
|                                                  | Inhalation | Non-applicable        | Non-applicable        | 106 mg/m <sup>3</sup>  | Non-applicable         |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1  | Oral       | 1,5 mg/kg             | Non-applicable        | 1,5 mg/kg              | Non-applicable         |
|                                                  | Dermal     | 1 mg/kg               | Non-applicable        | 1 mg/kg                | Non-applicable         |
|                                                  | Inhalation | 20 mg/m <sup>3</sup>  | 40 mg/m <sup>3</sup>  | 10 mg/m <sup>3</sup>   | 20 mg/m <sup>3</sup>   |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | Oral       | Non-applicable        | Non-applicable        | 8,13 mg/kg             | Non-applicable         |
|                                                  | Dermal     | Non-applicable        | Non-applicable        | 226 mg/kg              | Non-applicable         |
|                                                  | Inhalation | 226 mg/m <sup>3</sup> | 226 mg/m <sup>3</sup> | 56,5 mg/m <sup>3</sup> | 56,5 mg/m <sup>3</sup> |

**PNEC:**

| Identification                                   |              |                |                         |  |              |
|--------------------------------------------------|--------------|----------------|-------------------------|--|--------------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2         | STP          | 100 mg/L       | Fresh water             |  | 10,6 mg/L    |
|                                                  | Soil         | 29,5 mg/kg     | Marine water            |  | 1,06 mg/L    |
|                                                  | Intermittent | 21 mg/L        | Sediment (Fresh water)  |  | 30,4 mg/kg   |
|                                                  | Oral         | Non-applicable | Sediment (Marine water) |  | 3,04 mg/kg   |
| Dichloromethane<br>CAS: 75-09-2<br>EC: 200-838-9 | STP          | 26 mg/L        | Fresh water             |  | 0,54 mg/L    |
|                                                  | Soil         | 0,583 mg/kg    | Marine water            |  | 0,194 mg/L   |
|                                                  | Intermittent | 0,27 mg/L      | Sediment (Fresh water)  |  | 4,47 mg/kg   |
|                                                  | Oral         | Non-applicable | Sediment (Marine water) |  | 1,61 mg/kg   |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | STP          | 13,61 mg/L     | Fresh water             |  | 0,68 mg/L    |
|                                                  | Soil         | 2,89 mg/kg     | Marine water            |  | 0,68 mg/L    |
|                                                  | Intermittent | 0,68 mg/L      | Sediment (Fresh water)  |  | 16,39 mg/kg  |
|                                                  | Oral         | Non-applicable | Sediment (Marine water) |  | 16,39 mg/kg  |
| Butanone<br>CAS: 78-93-3<br>EC: 201-159-0        | STP          | 709 mg/L       | Fresh water             |  | 55,8 mg/L    |
|                                                  | Soil         | 22,5 mg/kg     | Marine water            |  | 55,8 mg/L    |
|                                                  | Intermittent | 55,8 mg/L      | Sediment (Fresh water)  |  | 284,74 mg/kg |
|                                                  | Oral         | 1000 g/kg      | Sediment (Marine water) |  | 284,7 mg/kg  |

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### TIGACOL A-98

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification                                  |              |                |                         |              |
|-------------------------------------------------|--------------|----------------|-------------------------|--------------|
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1 | STP          | 10 mg/L        | Fresh water             | 0,0329 mg/L  |
|                                                 | Soil         | 0,0143 mg/kg   | Marine water            | 0,00329 mg/L |
|                                                 | Intermittent | 0,329 mg/L     | Sediment (Fresh water)  | 0,168 mg/kg  |
|                                                 | Oral         | Non-applicable | Sediment (Marine water) | 0,0168 mg/kg |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9       | STP          | 13,61 mg/L     | Fresh water             | 0,68 mg/L    |
|                                                 | Soil         | 2,89 mg/kg     | Marine water            | 0,68 mg/L    |
|                                                 | Intermittent | 0,68 mg/L      | Sediment (Fresh water)  | 16,39 mg/kg  |
|                                                 | Oral         | Non-applicable | Sediment (Marine water) | 16,39 mg/kg  |

### 8.2 Exposure controls:

#### A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

| Pictogram                                                                                                                    | PPE                               | Labelling                                                                                     | CEN Standard        | Remarks                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | <br>CAT III | EN 405:2001+A1:2009 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

#### C.- Specific protection for the hands

| Pictogram                                                                                                        | PPE                                       | Labelling                                                                                      | CEN Standard                                                | Remarks                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory hand protection | NON-disposable chemical protective gloves | <br>CAT III | EN ISO 374-1:2016<br>EN 16523-1:2015<br>EN 420:2003+A1:2009 | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. |

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

#### D.- Ocular and facial protection

| Pictogram                                                                                                        | PPE         | Labelling                                                                                     | CEN Standard                                                  | Remarks                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory face protection | Face shield | <br>CAT II | EN 166:2001<br>EN 167:2001<br>EN 168:2001<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

#### E.- Body protection

| Pictogram                                                                                                                 | PPE                                                                                                 | Labelling                                                                                      | CEN Standard                                                                                                                                      | Remarks                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>Mandatory complete body protection | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties | <br>CAT III | EN 1149-1,2,3<br>EN 13034:2005+A1:2009<br>EN ISO 13982-1:2004/A1:2010<br>EN ISO 6529:2013<br>EN ISO 6530:2005<br>EN ISO 13688:2013<br>EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |
| <br>Mandatory foot protection          | Safety footwear for protection against chemical risk, with antistatic and heat resistant properties | <br>CAT III | EN ISO 13287:2012<br>EN ISO 20345:2011<br>EN 13832-1:2019                                                                                         | Replace boots at any sign of deterioration.                                                 |

#### F.- Additional emergency measures

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## TIGACOL A-98

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Emergency measure                                                                                     | Standards                                       | Emergency measure                                                                                      | Standards                                      |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

#### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

#### Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                                       |
|---------------------------|---------------------------------------|
| V.O.C. (Supply):          | 82,24 % weight                        |
| V.O.C. density at 20 °C:  | 712,21 kg/m <sup>3</sup> (712,21 g/L) |
| Average carbon number:    | 3,2                                   |
| Average molecular weight: | 63,69 g/mol                           |

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

For complete information see the product datasheet.

##### Appearance:

|                          |                  |
|--------------------------|------------------|
| Physical state at 20 °C: | Liquid           |
| Appearance:              | Viscous          |
| Colour:                  | Colourless       |
| Odour:                   | Acetona          |
| Odour threshold:         | Non-applicable * |

##### Volatility:

|                                        |                         |
|----------------------------------------|-------------------------|
| Boiling point at atmospheric pressure: | 57 °C                   |
| Vapour pressure at 20 °C:              | 24086 Pa                |
| Vapour pressure at 50 °C:              | 79550,59 Pa (79,55 kPa) |
| Evaporation rate at 20 °C:             | Non-applicable *        |

##### Product description:

|                                              |                       |
|----------------------------------------------|-----------------------|
| Density at 20 °C:                            | 866 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | 0,866                 |
| Dynamic viscosity at 20 °C:                  | Non-applicable *      |
| Kinematic viscosity at 20 °C:                | Non-applicable *      |
| Kinematic viscosity at 40 °C:                | >20,5 cSt             |
| Concentration:                               | Non-applicable *      |
| pH:                                          | Non-applicable *      |
| Vapour density at 20 °C:                     | Non-applicable *      |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *      |
| Solubility in water at 20 °C:                | Non-applicable *      |
| Solubility properties:                       | Non-applicable *      |
| Decomposition temperature:                   | Non-applicable *      |
| Melting point/freezing point:                | Non-applicable *      |
| Explosive properties:                        | Non-applicable *      |
| Oxidising properties:                        | Non-applicable *      |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

## TIGACOL A-98

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

**Flammability:**

|                            |                  |
|----------------------------|------------------|
| Flash Point:               | -16 °C           |
| Flammability (solid, gas): | Non-applicable * |
| Autoignition temperature:  | 420 °C           |
| Lower flammability limit:  | Not available    |
| Upper flammability limit:  | Not available    |

**Explosive:**

|                        |                  |
|------------------------|------------------|
| Lower explosive limit: | Non-applicable * |
| Upper explosive limit: | Non-applicable * |

**9.2 Other information:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

|                    |                  |                         |                     |                |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Shock and friction | Contact with air | Increase in temperature | Sunlight            | Humidity       |
| Not applicable     | Not applicable   | Risk of combustion      | Avoid direct impact | Not applicable |

**10.5 Incompatible materials:**

|                    |                |                     |                       |                               |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION \*\*

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

\*\* Changes with regards to the previous version

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## TIGACOL A-98

### SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
  - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
  - IARC: Toluene (3); Dichloromethane (2A); Cyclohexanone (3); Toluene (3)
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Reproductive toxicity: Suspected of damaging the unborn child.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
  - Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) - single exposure:
 

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
  - Skin: Repeated exposure may cause skin dryness or cracking
- H- Aspiration hazard:
 

Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

#### Other information:

Non-applicable

#### Specific toxicology information on the substances:

| Identification                                   | Acute toxicity  |                 | Genus  |
|--------------------------------------------------|-----------------|-----------------|--------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2         | LD50 oral       | 5800 mg/kg      | Rat    |
|                                                  | LD50 dermal     | 7426 mg/kg      | Rabbit |
|                                                  | LC50 inhalation | 76 mg/L (4 h)   | Rat    |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | LD50 oral       | 5580 mg/kg      | Rat    |
|                                                  | LD50 dermal     | 12124 mg/kg     | Rat    |
|                                                  | LC50 inhalation | 28,1 mg/L (4 h) | Rat    |
| Dichloromethane<br>CAS: 75-09-2<br>EC: 200-838-9 | LD50 oral       | >2000 mg/kg     |        |
|                                                  | LD50 dermal     | >2000 mg/kg     |        |
|                                                  | LC50 inhalation | 86 mg/L (4 h)   | Rat    |
| Butanone<br>CAS: 78-93-3<br>EC: 201-159-0        | LD50 oral       | 4000 mg/kg      | Rat    |
|                                                  | LD50 dermal     | 6400 mg/kg      | Rabbit |
|                                                  | LC50 inhalation | 23,5 mg/L (4 h) | Rat    |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1  | LD50 oral       | 2650 mg/kg      | Rat    |
|                                                  | LD50 dermal     | 3160 mg/kg      | Rabbit |
|                                                  | LC50 inhalation | 11 mg/L (4 h)   | Rat    |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | LD50 oral       | 5580 mg/kg      | Rat    |
|                                                  | LD50 dermal     | 12124 mg/kg     | Rat    |
|                                                  | LC50 inhalation | 28,1 mg/L (4 h) | Rat    |

\*\* Changes with regards to the previous version

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## TIGACOL A-98

### SECTION 12: ECOLOGICAL INFORMATION \*\*

The experimental information related to the eco-toxicological properties of the product itself is not available

#### 12.1 Toxicity:

| Identification                                   | Acute toxicity |                   | Species                 | Genus      |
|--------------------------------------------------|----------------|-------------------|-------------------------|------------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2         | LC50           | 5540 mg/L (96 h)  | Oncorhynchus mykiss     | Fish       |
|                                                  | EC50           | 23.5 mg/L (48 h)  | Daphnia magna           | Crustacean |
|                                                  | EC50           | 3400 mg/L (48 h)  | Chlorella pyrenoidosa   | Algae      |
| Dichloromethane<br>CAS: 75-09-2<br>EC: 200-838-9 | LC50           | 330 mg/L (96 h)   | Pimephales promelas     | Fish       |
|                                                  | EC50           | 270 mg/L (48 h)   | Daphnia magna           | Crustacean |
|                                                  | EC50           | 2300 mg/L (3 h)   | Chlorella vulgaris      | Algae      |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | LC50           | 13 mg/L (96 h)    | Carassius auratus       | Fish       |
|                                                  | EC50           | 11.5 mg/L (48 h)  | Daphnia magna           | Crustacean |
|                                                  | EC50           | 125 mg/L (48 h)   | Scenedesmus subspicatus | Algae      |
| Butanone<br>CAS: 78-93-3<br>EC: 201-159-0        | LC50           | 3220 mg/L (96 h)  | Pimephales promelas     | Fish       |
|                                                  | EC50           | 5091 mg/L (48 h)  | Daphnia magna           | Crustacean |
|                                                  | EC50           | 4300 mg/L (168 h) | Scenedesmus quadricauda | Algae      |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1  | LC50           | 527 mg/L (96 h)   | Pimephales promelas     | Fish       |
|                                                  | EC50           | 800 mg/L (24 h)   | Daphnia magna           | Crustacean |
|                                                  | EC50           | 370 mg/L (192 h)  | Scenedesmus quadricauda | Algae      |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | LC50           | 13 mg/L (96 h)    | Carassius auratus       | Fish       |
|                                                  | EC50           | 11.5 mg/L (48 h)  | Daphnia magna           | Crustacean |
|                                                  | EC50           | 125 mg/L (48 h)   | Scenedesmus subspicatus | Algae      |

#### 12.2 Persistence and degradability:

| Identification                                   | Degradability |                | Biodegradability |                |
|--------------------------------------------------|---------------|----------------|------------------|----------------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2         | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|                                                  | COD           | Non-applicable | Period           | 28 days        |
|                                                  | BOD5/COD      | 0.96           | % Biodegradable  | 96 %           |
| Dichloromethane<br>CAS: 75-09-2<br>EC: 200-838-9 | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|                                                  | COD           | Non-applicable | Period           | 28 days        |
|                                                  | BOD5/COD      | Non-applicable | % Biodegradable  | 13 %           |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | BOD5          | 2.5 g O2/g     | Concentration    | 100 mg/L       |
|                                                  | COD           | Non-applicable | Period           | 14 days        |
|                                                  | BOD5/COD      | Non-applicable | % Biodegradable  | 100 %          |
| Butanone<br>CAS: 78-93-3<br>EC: 201-159-0        | BOD5          | 2.03 g O2/g    | Concentration    | Non-applicable |
|                                                  | COD           | 2.31 g O2/g    | Period           | 20 days        |
|                                                  | BOD5/COD      | 0.88           | % Biodegradable  | 89 %           |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1  | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|                                                  | COD           | Non-applicable | Period           | 14 days        |
|                                                  | BOD5/COD      | 0.65           | % Biodegradable  | 87 %           |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | BOD5          | 2.5 g O2/g     | Concentration    | 100 mg/L       |
|                                                  | COD           | Non-applicable | Period           | 14 days        |
|                                                  | BOD5/COD      | Non-applicable | % Biodegradable  | 100 %          |

#### 12.3 Bioaccumulative potential:

| Identification                                   | Bioaccumulation potential |       |
|--------------------------------------------------|---------------------------|-------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2         | BCF                       | 1     |
|                                                  | Pow Log                   | -0.24 |
|                                                  | Potential                 | Low   |
| Dichloromethane<br>CAS: 75-09-2<br>EC: 200-838-9 | BCF                       | 6     |
|                                                  | Pow Log                   | 1.25  |
|                                                  | Potential                 | Low   |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | BCF                       | 13    |
|                                                  | Pow Log                   | 2.73  |
|                                                  | Potential                 | Low   |

\*\* Changes with regards to the previous version

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## TIGACOL A-98

### SECTION 12: ECOLOGICAL INFORMATION \*\* (continued)

| Identification                                  | Bioaccumulation potential |      |
|-------------------------------------------------|---------------------------|------|
| Butanone<br>CAS: 78-93-3<br>EC: 201-159-0       | BCF                       | 3    |
|                                                 | Pow Log                   | 0.29 |
|                                                 | Potential                 | Low  |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1 | BCF                       | 2    |
|                                                 | Pow Log                   | 0.81 |
|                                                 | Potential                 | Low  |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9       | BCF                       | 13   |
|                                                 | Pow Log                   | 2.73 |
|                                                 | Potential                 | Low  |

#### 12.4 Mobility in soil:

| Identification                                   | Absorption/desorption |                      | Volatility |                                 |
|--------------------------------------------------|-----------------------|----------------------|------------|---------------------------------|
| Acetone<br>CAS: 67-64-1<br>EC: 200-662-2         | Koc                   | 1                    | Henry      | 2,93 Pa·m <sup>3</sup> /mol     |
|                                                  | Conclusion            | Very High            | Dry soil   | Yes                             |
|                                                  | Surface tension       | 2,304E-2 N/m (25 °C) | Moist soil | Yes                             |
| Dichloromethane<br>CAS: 75-09-2<br>EC: 200-838-9 | Koc                   | Non-applicable       | Henry      | Non-applicable                  |
|                                                  | Conclusion            | Non-applicable       | Dry soil   | Non-applicable                  |
|                                                  | Surface tension       | 2,877E-2 N/m (25 °C) | Moist soil | Non-applicable                  |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | Koc                   | 178                  | Henry      | 672,8 Pa·m <sup>3</sup> /mol    |
|                                                  | Conclusion            | Moderate             | Dry soil   | Yes                             |
|                                                  | Surface tension       | 2,793E-2 N/m (25 °C) | Moist soil | Yes                             |
| Butanone<br>CAS: 78-93-3<br>EC: 201-159-0        | Koc                   | 30                   | Henry      | 5,77 Pa·m <sup>3</sup> /mol     |
|                                                  | Conclusion            | Very High            | Dry soil   | Yes                             |
|                                                  | Surface tension       | 2,396E-2 N/m (25 °C) | Moist soil | Yes                             |
| Cyclohexanone<br>CAS: 108-94-1<br>EC: 203-631-1  | Koc                   | 17                   | Henry      | 9,119E-1 Pa·m <sup>3</sup> /mol |
|                                                  | Conclusion            | Very High            | Dry soil   | Yes                             |
|                                                  | Surface tension       | 3,437E-2 N/m (25 °C) | Moist soil | Yes                             |
| Toluene<br>CAS: 108-88-3<br>EC: 203-625-9        | Koc                   | 178                  | Henry      | 672,8 Pa·m <sup>3</sup> /mol    |
|                                                  | Conclusion            | Moderate             | Dry soil   | Yes                             |
|                                                  | Surface tension       | 2,793E-2 N/m (25 °C) | Moist soil | Yes                             |

#### 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

#### 12.6 Other adverse effects:

Not described

*\*\* Changes with regards to the previous version*

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

| Code      | Description                                                                            | Waste class (Regulation (EU) No 1357/2014) |
|-----------|----------------------------------------------------------------------------------------|--------------------------------------------|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances | Dangerous                                  |

#### Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP7 Carcinogenic, HP10 Toxic for reproduction, HP4 Irritant — skin irritation and eye damage

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

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## TIGACOL A-98

### SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

### SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:



- |                                                                                 |                                       |
|---------------------------------------------------------------------------------|---------------------------------------|
| <b>14.1 UN number:</b>                                                          | UN1133                                |
| <b>14.2 UN proper shipping name:</b>                                            | ADHESIVES containing flammable liquid |
| <b>14.3 Transport hazard class(es):</b>                                         | 3                                     |
| Labels:                                                                         | 3                                     |
| <b>14.4 Packing group:</b>                                                      | II                                    |
| <b>14.5 Environmental hazards:</b>                                              | No                                    |
| <b>14.6 Special precautions for user</b>                                        |                                       |
| Special regulations:                                                            | 640D                                  |
| Tunnel restriction code:                                                        | D/E                                   |
| Physico-Chemical properties:                                                    | see section 9                         |
| Limited quantities:                                                             | 5 L                                   |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable                        |

#### Transport of dangerous goods by sea:

With regard to IMDG 38-16:



- |                                                                                 |                                       |
|---------------------------------------------------------------------------------|---------------------------------------|
| <b>14.1 UN number:</b>                                                          | UN1133                                |
| <b>14.2 UN proper shipping name:</b>                                            | ADHESIVES containing flammable liquid |
| <b>14.3 Transport hazard class(es):</b>                                         | 3                                     |
| Labels:                                                                         | 3                                     |
| <b>14.4 Packing group:</b>                                                      | II                                    |
| <b>14.5 Environmental hazards:</b>                                              | No                                    |
| <b>14.6 Special precautions for user</b>                                        |                                       |
| Special regulations:                                                            | Non-applicable                        |
| EmS Codes:                                                                      | F-E, S-D                              |
| Physico-Chemical properties:                                                    | see section 9                         |
| Limited quantities:                                                             | 5 L                                   |
| Segregation group:                                                              | Non-applicable                        |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable                        |

#### Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:



- |                                                                                 |                                       |
|---------------------------------------------------------------------------------|---------------------------------------|
| <b>14.1 UN number:</b>                                                          | UN1133                                |
| <b>14.2 UN proper shipping name:</b>                                            | ADHESIVES containing flammable liquid |
| <b>14.3 Transport hazard class(es):</b>                                         | 3                                     |
| Labels:                                                                         | 3                                     |
| <b>14.4 Packing group:</b>                                                      | II                                    |
| <b>14.5 Environmental hazards:</b>                                              | No                                    |
| <b>14.6 Special precautions for user</b>                                        |                                       |
| Physico-Chemical properties:                                                    | see section 9                         |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Non-applicable                        |

### SECTION 15: REGULATORY INFORMATION

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

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**SECTION 15: REGULATORY INFORMATION (continued)**

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable  
Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable  
Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable  
Article 95, REGULATION (EU) No 528/2012: Non-applicable  
REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Seveso III:**

| Section | Description | Lower-tier requirements | Upper-tier requirements |
|---------|-------------|-------------------------|-------------------------|
| P5c     |             | 5000                    | 50000                   |

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Contains more than 0.1 % of Toluene, Toluene by weight. Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- "whoopie" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors: Contains Acetone. Product under the provisions of Article 9

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION \*\***

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

*\*\* Changes with regards to the previous version*

## TIGACOL A-98

### SECTION 16: OTHER INFORMATION \*\* (continued)

#### COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
  - Dichloromethane (75-09-2)
  - Toluene (108-88-3)
  - Butanone (78-93-3)
  - Cyclohexanone (108-94-1)
  - Toluene (108-88-3)
- Removed substances
  - Phenol (108-95-2)
  - n-hexane (110-54-3)
  - Rosin (8050-09-7)
  - Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

#### Substances that contribute to the classification (SECTION 2):

- New declared substances
  - Dichloromethane (75-09-2)
  - Toluene (108-88-3)
  - Butanone (78-93-3)
- Removed substances
  - n-hexane (110-54-3)
  - Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

#### CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements
- Precautionary statements
- Supplementary information

#### Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation  
H336: May cause drowsiness or dizziness  
H361d: Suspected of damaging the unborn child.  
H351: Suspected of causing cancer  
H225: Highly flammable liquid and vapour

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H332 - Harmful if inhaled  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways  
Carc. 2: H351 - Suspected of causing cancer  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
Repr. 2: H361d - Suspected of damaging the unborn child.  
Skin Irrit. 2: H315 - Causes skin irritation  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure  
STOT SE 3: H336 - May cause drowsiness or dizziness

#### Classification procedure:

Eye Irrit. 2: Calculation method  
STOT SE 3: Calculation method  
Repr. 2: Calculation method  
Carc. 2: Calculation method  
Flam. Liq. 2: Calculation method (2.6.4.3)

#### Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

#### Abbreviations and acronyms:

**TIGACOL A-98**

**SECTION 16: OTHER INFORMATION \*\* (continued)**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon

*\*\* Changes with regards to the previous version*

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -