



**Chemiprint – NEWPRINT RANGE  
C-509**

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

- 1.1 Product identifier:** Chemiprint - NEWPRINT NCPU PROCESS RANGE  
C-509902-R
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Printing-ink. For 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:**  
Chemiprint LLP  
23 hamasger st  
9906017 beit Shemesh - Israel  
Phone.: 972-2-9901880 -  
Fax: 972-2-9901899  
info@chemiprint.com  
www.chemiprint.com
- 1.4 Emergency telephone number:**

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) n° 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) n° 1272/2008.  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Flam. Liq. 2: Flammable liquids, Category 2, H225  
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336
- 2.2 Label elements:**  
**CLP Regulation (EC) n° 1272/2008:**  
**Danger**
-  
- Hazard statements:**  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour  
STOT SE 3: H336 - May cause drowsiness or dizziness
- Precautionary statements:**  
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  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
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  
P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed  
P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively
- Substances that contribute to the classification**  
1-methoxy-2-propanol; Ethyl Acetate
- 2.3 Other hazards:**  
Non-applicable

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

- 3.1 Substance:**  
Non-applicable
- 3.2 Mixture:**

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

**Chemical description:** Dispersion of pigments in solvents

**Components:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

| Identification   | Chemical name/Classification  | Concentration  |
|--|---|--|
| CAS: 107-98-2<br>EC: 203-539-1<br>Index: 603-064-00-3<br>REACH:01-2119457435-35-XXX<br>X     | <b>1-methoxy-2-propanol</b> ATP ATP01   | 2.5 - <50 %<br> |
|  | Regulation 1272/2008 Flam. Liq. 3: H226; STOT SE 3: H336 - Warning                            |  |
| CAS: 64-17-5<br>EC: 200-578-6<br>Index: 603-002-00-5<br>REACH:01-2119457610-43-XXX<br>X      | <b>Ethanol</b> Self-classified  | 2.5 - <10 %<br> |
|  | Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger                          |  |
| CAS: 5131-66-8<br>EC: 225-878-4<br>Index: 603-052-00-8<br>REACH:01-2119475527-28-XXX<br>X    | <b>3-butoxypropan-2-ol</b> ATP CLP00  | 2.5 - <10 %<br> |
|  | Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning                        |  |
| CAS: 141-78-6<br>EC: 205-500-4<br>Index: 607-022-00-5<br>REACH:01-2119475103-46-XXX<br>X     | <b>Ethyl Acetate</b> ATP CLP00  | 2.5 - <10 %<br> |
|  | Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger |  |
| CAS: 109037-78-7<br>EC: 401-100-0<br>Index: Non-applicable<br>REACH:Non-applicable           | <b>Titanium, Buphosphate Et alc. iso-Pr alc. complexes</b> Self-classified                    | 1 - <2.5 %<br>  |
|  | Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger |  |
| CAS: 34590-94-8<br>EC: 252-104-2<br>Index: Non-applicable<br>REACH:01-2119450011-60-XXX<br>X | <b>Dipropylene Glycol Methyl Ether</b> Not classified   | 1 - <2.5 %   |
|  | Regulation 1272/2008  |  |

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

**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:**

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

**By eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as 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:**

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:**

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**SECTION 5: FIREFIGHTING MEASURES (continued)**

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 tap 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 individual respiratory equipment. 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. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, 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 spilled product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. 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

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 94/9/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

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

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

Minimum Temp.: 5 °C  
Maximum Temp.: 40 °C  
Maximum time: 12 Months

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 work environment

| Identification  | Environmental limits |         |                       |
|---|----------------------|---------|-----------------------|
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1              | IOELV (8h)           | 100 ppm | 375 mg/m <sup>3</sup> |
|   | IOELV (STEL)         | 150 ppm | 563 mg/m <sup>3</sup> |
|   | Year                 | 2015    |                       |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | IOELV (8h)           | 50 ppm  | 308 mg/m <sup>3</sup> |
|   | IOELV (STEL)         |         |                       |
|   | Year                 | 2015    |                       |

**DNEL (Workers):**

| Identification  |            | Short exposure         |                         | Long exposure           |                       |
|---|------------|------------------------|-------------------------|-------------------------|-----------------------|
|   |            | Systemic               | Local                   | Systemic                | Local                 |
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1              | Oral       | Non-applicable         | Non-applicable          | Non-applicable          | Non-applicable        |
|   | Dermal     | Non-applicable         | Non-applicable          | 50,6 mg/kg              | Non-applicable        |
|   | Inhalation | Non-applicable         | 553,5 mg/m <sup>3</sup> | 369 mg/m <sup>3</sup>   | Non-applicable        |
| Ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                            | Oral       | Non-applicable         | Non-applicable          | Non-applicable          | Non-applicable        |
|   | Dermal     | Non-applicable         | Non-applicable          | 343 mg/kg               | Non-applicable        |
|   | Inhalation | Non-applicable         | 1900 mg/m <sup>3</sup>  | 950 mg/m <sup>3</sup>   | Non-applicable        |
| 3-butoxypropan-2-ol<br>CAS: 5131-66-8<br>EC: 225-878-4              | Oral       | Non-applicable         | Non-applicable          | Non-applicable          | Non-applicable        |
|   | Dermal     | Non-applicable         | Non-applicable          | 44 mg/kg                | Non-applicable        |
|   | Inhalation | Non-applicable         | Non-applicable          | 270,5 mg/m <sup>3</sup> | Non-applicable        |
| Ethyl Acetate<br>CAS: 141-78-6<br>EC: 205-500-4                     | Oral       | Non-applicable         | Non-applicable          | Non-applicable          | Non-applicable        |
|   | Dermal     | Non-applicable         | Non-applicable          | 63 mg/kg                | Non-applicable        |
|   | Inhalation | 1468 mg/m <sup>3</sup> | 1468 mg/m <sup>3</sup>  | 734 mg/m <sup>3</sup>   | 734 mg/m <sup>3</sup> |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | Oral       | Non-applicable         | Non-applicable          | Non-applicable          | Non-applicable        |
|   | Dermal     | Non-applicable         | Non-applicable          | 65 mg/kg                | Non-applicable        |
|   | Inhalation | Non-applicable         | Non-applicable          | 310 mg/m <sup>3</sup>   | Non-applicable        |

**DNEL (General population):**

| Identification   |            | Short exposure        |                       | Long exposure          |                       |
|--|------------|-----------------------|-----------------------|------------------------|-----------------------|
|  |            | Systemic              | Local                 | Systemic               | Local                 |
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1 | Oral       | Non-applicable        | Non-applicable        | 3,3 mg/kg              | Non-applicable        |
|  | Dermal     | Non-applicable        | Non-applicable        | 18,1 mg/kg             | Non-applicable        |
|  | Inhalation | Non-applicable        | Non-applicable        | 43,9 mg/m <sup>3</sup> | Non-applicable        |
| Ethanol<br>CAS: 64-17-5<br>EC: 200-578-6               | Oral       | Non-applicable        | Non-applicable        | 87 mg/kg               | Non-applicable        |
|  | Dermal     | Non-applicable        | Non-applicable        | 206 mg/kg              | Non-applicable        |
|  | Inhalation | Non-applicable        | 950 mg/m <sup>3</sup> | 114 mg/m <sup>3</sup>  | Non-applicable        |
| 3-butoxypropan-2-ol<br>CAS: 5131-66-8<br>EC: 225-878-4 | Oral       | Non-applicable        | Non-applicable        | 8,75 mg/kg             | Non-applicable        |
|  | Dermal     | Non-applicable        | Non-applicable        | 16 mg/kg               | Non-applicable        |
|  | Inhalation | Non-applicable        | Non-applicable        | 33,8 mg/m <sup>3</sup> | Non-applicable        |
| Ethyl Acetate<br>CAS: 141-78-6<br>EC: 205-500-4        | Oral       | Non-applicable        | Non-applicable        | 4,5 mg/kg              | Non-applicable        |
|  | Dermal     | Non-applicable        | Non-applicable        | 37 mg/kg               | Non-applicable        |
|  | Inhalation | 734 mg/m <sup>3</sup> | 734 mg/m <sup>3</sup> | 367 mg/m <sup>3</sup>  | 367 mg/m <sup>3</sup> |

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

| Identification  |            | Short exposure |                | Long exposure          |                |
|---|------------|----------------|----------------|------------------------|----------------|
|   |            | Systemic       | Local          | Systemic               | Local          |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | Oral       | Non-applicable | Non-applicable | 1,67 mg/kg             | Non-applicable |
|   | Dermal     | Non-applicable | Non-applicable | 15 mg/kg               | Non-applicable |
|   | Inhalation | Non-applicable | Non-applicable | 37,2 mg/m <sup>3</sup> | Non-applicable |

**PNEC:**

| Identification  |              |                |                         |                |
|---|--------------|----------------|-------------------------|----------------|
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1              | STP          | 100 mg/L       | Fresh water             | 10 mg/L        |
|   | Soil         | 5,49 mg/kg     | Marine water            | 1 mg/L         |
|   | Intermittent | 100 mg/L       | Sediment (Fresh water)  | 52,3 mg/kg     |
|   | Oral         | Non-applicable | Sediment (Marine water) | 5,2 mg/kg      |
| Ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                            | STP          | 580 mg/L       | Fresh water             | 0,96 mg/L      |
|   | Soil         | Non-applicable | Marine water            | 0,79 mg/L      |
|   | Intermittent | 2,75 mg/L      | Sediment (Fresh water)  | 3,6 mg/kg      |
|   | Oral         | 720 g/kg       | Sediment (Marine water) | Non-applicable |
| 3-butoxypropan-2-ol<br>CAS: 5131-66-8<br>EC: 225-878-4              | STP          | 10 mg/L        | Fresh water             | 0,525 mg/L     |
|   | Soil         | 0,16 mg/kg     | Marine water            | 0,0525 mg/L    |
|   | Intermittent | 5,25 mg/L      | Sediment (Fresh water)  | 2,36 mg/kg     |
|   | Oral         | Non-applicable | Sediment (Marine water) | 0,236 mg/kg    |
| Ethyl Acetate<br>CAS: 141-78-6<br>EC: 205-500-4                     | STP          | 650 mg/L       | Fresh water             | 0,24 mg/L      |
|   | Soil         | 0,148 mg/kg    | Marine water            | 0,024 mg/L     |
|   | Intermittent | 1,65 mg/L      | Sediment (Fresh water)  | 1,15 mg/kg     |
|   | Oral         | 200 g/kg       | Sediment (Marine water) | 0,115 mg/kg    |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | STP          | 4168 mg/L      | Fresh water             | 19 mg/L        |
|   | Soil         | 2,74 mg/kg     | Marine water            | 1,9 mg/L       |
|   | Intermittent | 190 mg/L       | Sediment (Fresh water)  | 70,2 mg/kg     |
|   | Oral         | Non-applicable | Sediment (Marine water) | 7,02 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 Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection 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 |  | 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 | Protective gloves against minor risks |  |              | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374. |



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

D.- Ocular and facial protection





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

| Pictogram  | PPE   | Labelling   | CEN Standard                    | Remarks   |
|--|---|---|---------------------------------|---|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. |  | EN 166:2001<br>EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Bodily protection

| Pictogram   | PPE   | Labelling   | CEN Standard   | Remarks                                     |
|---|---|---|--|---|
| <br>Mandatory complete body protection | Antistatic and fireproof protective clothing                  |  | EN 1149-1:2006<br>EN 1149-2:1997<br>EN 1149-3:2004<br>EN 168:2001<br>EN ISO 14116:2008/AC:2009<br>EN 1149-5:2008 | Limited protection against flames.          |
| <br>Mandatory foot protection          | Safety footwear with antistatic and heat resistant properties |  | EN 13287:2008<br>EN ISO 20345:2011   | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

| Emergency measure  | Standards                      | Emergency measure   | Standards                     |
|--|--------------------------------|---|-------------------------------|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2002 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2002 |

**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):          | 62,64 % weight                      |
| V.O.C. density at 20 °C:  | 641,1 kg/m <sup>3</sup> (641,1 g/L) |
| Average carbon number:    | 3,83                                |
| Average molecular weight: | 84,57 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: Dispersion

Colour: Range of various colours.

Odour: Solvent

Odour threshold: Non-applicable \*

**Volatility:**

Boiling point at atmospheric pressure: 110 °C

Vapour pressure at 20 °C: Non-applicable \*

Vapour pressure at 50 °C: <300000 Pa (300 kPa)

Evaporation rate at 20 °C: Non-applicable \*

**Product description:**

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

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

|  |                               |
|--|-------------------------------|
| Density at 20 °C:                            | 1023 kg/m <sup>3</sup>        |
| Relative density at 20 °C:                   | 1,023                         |
| Dynamic viscosity at 20 °C:                  | Non-applicable *              |
| Kinematic viscosity at 20 °C:                | Non-applicable *              |
| Flow cup time at 20 °C:                      | 25 - 45 seconds (Ford cup #4) |
| 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:                       | Solvent miscible              |
| Decomposition temperature:                   | Non-applicable *              |
| Melting point/freezing point:                | Non-applicable *              |
| Explosive properties:                        | Non-applicable *              |
| Oxidising properties:                        | Non-applicable *              |
| <b>Flammability:</b>                         |                               |
| Flash Point:                                 | 22 °C                         |
| Flammability (solid, gas):                   | Non-applicable *              |
| Autoignition temperature:                    | 260 °C                        |
| Lower flammability limit:                    | Not available                 |
| Upper flammability limit:                    | Not available                 |

**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          | Combustive 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.

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**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

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

**Dangerous health implications:**

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

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain 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: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 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: 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.

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 cause a breakdown in 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, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: 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.

H- Aspiration hazard:

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.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

| Identification | Acute toxicity  |                  | Genus  |
|----------------|-----------------|------------------|--------|
| Ethanol        | LD50 oral       | 6200 mg/kg       | Rat    |
| CAS: 64-17-5   | LD50 dermal     | 20000 mg/kg      | Rabbit |
| EC: 200-578-6  | LC50 inhalation | 124,7 mg/L (4 h) | Rat    |
| Ethyl Acetate  | LD50 oral       | 4100 mg/kg       | Rat    |
| CAS: 141-78-6  | LD50 dermal     | 20000 mg/kg      | Rabbit |
| EC: 205-500-4  | LC50 inhalation | Non-applicable   |        |

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

| Identification   | Acute toxicity  |                | Genus |
|--|-----------------|----------------|-------|
| 3-butoxypropan-2-ol<br>CAS: 5131-66-8<br>EC: 225-878-4 | LD50 oral       | 3771 mg/kg     | Rat   |
|  | LD50 dermal     | Non-applicable |       |
|  | LC50 inhalation | Non-applicable |       |

**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      |
|--|----------------|--------------------|---------------------------|------------|
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1                                   | LC50           | 20800 mg/L (96 h)  | Pimephales promelas       | Fish       |
|  | EC50           | 23300 mg/L (48 h)  | Daphnia magna             | Crustacean |
|  | EC50           | 1000 mg/L (168 h)  | Selenastrum capricornutum | Algae      |
| Ethanol<br>CAS: 64-17-5<br>EC: 200-578-6   | LC50           | 11000 mg/L (96 h)  | Alburnus alburnus         | Fish       |
|  | EC50           | 9268 mg/L (48 h)   | Daphnia magna             | Crustacean |
|  | EC50           | 1450 mg/L (192 h)  | Microcystis aeruginosa    | Algae      |
| Ethyl Acetate<br>CAS: 141-78-6<br>EC: 205-500-4  | LC50           | 230 mg/L (96 h)    | Pimephales promelas       | Fish       |
|  | EC50           | 717 mg/L (48 h)    | Daphnia magna             | Crustacean |
|  | EC50           | 3300 mg/L (48 h)   | Scenedesmus subspicatus   | Algae      |
| Titanium, Buphosphate Et alc. iso-Pr alc. complexes<br>CAS: 109037-78-7<br>EC: 401-100-0 | LC50           | 1 - 10 mg/L (96 h) |                           | Fish       |
|  | EC50           | 1 - 10 mg/L        |                           | Crustacean |
|  | EC50           | 1 - 10 mg/L        |                           | Algae      |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2                      | LC50           | 10000 mg/L (96 h)  | Pimephales promelas       | Fish       |
|  | EC50           | 1919 mg/L (48 h)   | Daphnia magna             | Crustacean |
|  | EC50           | Non-applicable     |                           |            |

**12.2 Persistence and degradability:**

| Identification  | Degradability |                | Biodegradability |                |
|---|---------------|----------------|------------------|----------------|
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1              | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|   | COD           | Non-applicable | Period           | 28 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 90 %           |
| Ethanol<br>CAS: 64-17-5<br>EC: 200-578-6                            | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|   | COD           | Non-applicable | Period           | 14 days        |
|   | BOD5/COD      | 0.57           | % Biodegradable  | 89 %           |
| 3-butoxypropan-2-ol<br>CAS: 5131-66-8<br>EC: 225-878-4              | BOD5          | Non-applicable | Concentration    | 100 mg/L       |
|   | COD           | Non-applicable | Period           | 28 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 89 %           |
| Ethyl Acetate<br>CAS: 141-78-6<br>EC: 205-500-4                     | BOD5          | 1.36 g O2/g    | Concentration    | 100 mg/L       |
|   | COD           | 1.69 g O2/g    | Period           | 14 days        |
|   | BOD5/COD      | 0.81           | % Biodegradable  | 83 %           |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | BOD5          | Non-applicable | Concentration    | Non-applicable |
|   | COD           | 0.00202 g O2/g | Period           | 28 days        |
|   | BOD5/COD      | Non-applicable | % Biodegradable  | 73 %           |

**12.3 Bioaccumulative potential:**

| Identification   | Bioaccumulation potential |       |
|--|---------------------------|-------|
| 1-methoxy-2-propanol<br>CAS: 107-98-2<br>EC: 203-539-1 | BCF                       | 3     |
|  | Pow Log                   | -0.44 |
|  | Potential                 | Low   |
| Ethanol<br>CAS: 64-17-5<br>EC: 200-578-6               | BCF                       | 3     |
|  | Pow Log                   | -0.31 |
|  | Potential                 | Low   |
| 3-butoxypropan-2-ol<br>CAS: 5131-66-8<br>EC: 225-878-4 | BCF                       | 0.8   |
|  | Pow Log                   |       |
|  | Potential                 | Low   |

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

| Identification  | Bioaccumulation potential |          |
|---|---------------------------|----------|
| Ethyl Acetate<br>CAS: 141-78-6<br>EC: 205-500-4                     | BCF                       | 30       |
|   | Pow Log                   | 0.73     |
|   | Potential                 | Moderate |
| Dipropylene Glycol Methyl Ether<br>CAS: 34590-94-8<br>EC: 252-104-2 | BCF                       | 1        |
|   | Pow Log                   | -0.06    |
|   | Potential                 | Low      |

**12.4 Mobility in soil:**

| Identification                                  | Absorption/desorption |                      | Volatility |                                |
|---|-----------------------|----------------------|------------|--------------------------------|
| Ethanol<br>CAS: 64-17-5<br>EC: 200-578-6        | Koc                   | 1                    | Henry      | 4,61E-1 Pa·m <sup>3</sup> /mol |
|   | Conclusion            | Very High            | Dry soil   | Yes                            |
|   | Surface tension       | 2,339E-2 N/m (25 °C) | Moist soil | Yes                            |
| Ethyl Acetate<br>CAS: 141-78-6<br>EC: 205-500-4 | Koc                   | 59                   | Henry      | 13,58 Pa·m <sup>3</sup> /mol   |
|   | Conclusion            | Very High            | Dry soil   | Yes                            |
|   | Surface tension       | 2,324E-2 N/m (25 °C) | Moist soil | Yes                            |

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

Non-applicable

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code      | Description                               | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|--|
| 08 03 12* | Waste ink containing dangerous substances | Dangerous                                  |

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

HP3 Flammable, HP4 Irritant — skin irritation and eye damage, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

**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) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

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 2015 and RID 2015:

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**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number:** UN1210  
**14.2 UN proper shipping name:** PRINTING INK, flammable  
**14.3 Transport hazard class(es):** 3  
Labels: 3  
**14.4 Packing group:** II  
**14.5 Dangerous for the environment:** No  
**14.6 Special precautions for user**  
Special regulations: 163, 367  
Tunnel restriction code: D/E  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 37-14:



- 14.1 UN number:** UN1210  
**14.2 UN proper shipping name:** PRINTING INK, flammable  
**14.3 Transport hazard class(es):** 3  
Labels: 3  
**14.4 Packing group:** II  
**14.5 Dangerous for the environment:** No  
**14.6 Special precautions for user**  
Special regulations: 163  
EmS Codes: F-E, S-D  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2015:



- 14.1 UN number:** UN1210  
**14.2 UN proper shipping name:** PRINTING INK, flammable  
**14.3 Transport hazard class(es):** 3  
Labels: 3  
**14.4 Packing group:** II  
**14.5 Dangerous for the environment:** No  
**14.6 Special precautions for user**  
Physico-Chemical properties: see section 9  
**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Non-applicable

**SECTION 15: REGULATORY INFORMATION**

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Ethanol (Product-type 1, 2, 4)

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

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

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

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,
- "whoopee" 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'.

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 data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, 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) N° 1907/2006 (Regulation (EC) N° 2015/830)

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

Non-applicable

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

H336: May cause drowsiness or dizziness  
H225: Highly flammable liquid and vapour  
H319: Causes serious eye irritation

**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) n° 1272/2008:**

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects  
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  
Skin Irrit. 2: H315 - Causes skin irritation  
STOT SE 3: H336 - May cause drowsiness or dizziness

**Classification procedure:**

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

**Advice related to training:**

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## Safety data sheet

According to 1907/2006/EC (REACH), 2015/830/EU

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

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

**Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

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

**Abbreviations and acronyms:**

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

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 -