

SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)  
PEBEO SAS

Version 8.1 (04/05/2022) - Page 1/13

Colorex ink : Rich and pale gold - FDS016

**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Product name : Colorex ink : Rich and pale gold

Product code : FDS016.

See list of references in appendix.

UFI : VDE0-00XK-000A-61Y3

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

Paints &amp; Varnishes for artists

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

Registered company name : PEBEO SAS.

Address : CS 10106 .13881.GEMENOS CEDEX.FRANCE.

Telephone : 33 (0) 4.42.32.08.08. Fax : 33 (0) 4.42.32.01.70.

reglementation@pebeo.com

www.pebeo.com

**1.4. Emergency telephone number : +33 (0)1 45 42 59 59.**Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.**Other emergency numbers**

United Kingdom : 0870 600 6266 Ireland : 01 809 25 66

**SECTION 2 : HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****> In compliance with EC regulation No. 1272/2008 and its amendments.**

Flammable liquid, Category 2 (Flam. Liq. 2, H225).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

**2.2. Label elements****> In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS02



GHS09

Signal Word :

DANGER

Hazard statements :

H225

H411

Precautionary statements - General :

P101

P102

Precautionary statements - Prevention :

P210

Highly flammable liquid and vapour.

Toxic to aquatic life with long lasting effects.

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

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

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Precautionary statements - Disposal :

P501

Dispose of contents/container in accordance with  
local/regional/national/international regulation.**> 2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances  $\geq 0.1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

**>SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****> Composition :**

| Identification   | (EC) 1272/2008   | Note | %                    |
|--|--|------|----------------------|
| INDEX: 029-024-00-X<br>CAS: 7440-50-8<br>EC: 231-159-6<br><br>GRANULATED COPPER (PARTICLE LENGTH: FROM 0,9 MM TO 6,0 MM, PARTICLE WIDTH: FROM 0,494 TO 0,949 MM) | GHS09<br>Aquatic Chronic 2, H411   | [1]  | $10 \leq x \% < 25$  |
| INDEX: 030-001-01-9<br>CAS: 7440-66-6<br>EC: 231-175-3<br>REACH: 01-2119467174-37<br><br>ZINC POWDER - ZINC DUST (STABILISED)                                    | GHS09<br>Wng<br>Aquatic Acute 1, H400<br>M Acute = 1<br>Aquatic Chronic 1, H410<br>M Chronic = 1 | [1]  | $2.5 \leq x \% < 10$ |
| INDEX: 606-002-00-3<br>CAS: 78-93-3<br>EC: 201-159-0<br><br>BUTANONE   | GHS02, GHS07<br>Dgr<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH:066    | [1]  | $0 \leq x \% < 2.5$  |
| INDEX: 603-117-00-0<br>CAS: 67-63-0<br>EC: 200-661-7<br><br>PROPAN-2-OL  | GHS02, GHS07<br>Dgr<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336               | [1]  | $0 \leq x \% < 2.5$  |

**Information on ingredients :**

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

**>SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures****> In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

**In the event of swallowing :**

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

**SECTION 5 : FIREFIGHTING MEASURES**

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

**5.1. Extinguishing media**

Keep packages near the fire cool, to prevent pressurised containers from bursting.

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO<sub>2</sub>)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

**>SECTION 6 : ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**> For non first aid worker**

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**> 6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

**6.3. Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

No data available.

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**>SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**> 7.1. Precautions for safe handling**

Always wash hands after handling.

Ensure that there is adequate ventilation, especially in confined areas.

**Fire prevention :**

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always ground when decanting. Wear antistatic shoes and clothing and make floors of non-conductive

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

**> Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

**> Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

**Storage**

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

**Packaging**

Always keep in packaging made of an identical material to the original.

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

No data available.

**>SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limits :**

- European Union (2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

| CAS     | VME-mg/m3 : | VME-ppm : | VLE-mg/m3 : | VLE-ppm : | Notes : |
|---------|-------------|-----------|-------------|-----------|---------|
| 78-93-3 | 600         | 200       | 900         | 300       | -       |

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

| CAS       | TWA :     | STEL :  | Ceiling : | Definition : | Criteria : |
|-----------|-----------|---------|-----------|--------------|------------|
| 7440-50-8 | 0.2 mg/m3 | -       | -         | -            | -          |
| 78-93-3   | 200 ppm   | 300 ppm | -         | BEI          | -          |
| 67-63-0   | 200 ppm   | 400 ppm | -         | A4; BEI      | -          |

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- South Africa / DOL RL (Department of Labour, Recommended limits, 1995) :

| CAS       | TWA :                | STEL :                | Ceiling : | Definition : | Criteria : |
|-----------|----------------------|-----------------------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3              | 2 mg/m3               | -         | -            | -          |
| 78-93-3   | 200 ppm<br>590 mg/m3 | 300 ppm<br>885 mg/m3  |           |              |            |
| 67-63-0   | 400 ppm<br>980 mg/m3 | 500 ppm<br>1225 mg/m3 |           | Sk           |            |

- Germany - AGW (BAuA - TRGS 900, 08/08/2019) :

| CAS     | VME : | VME :                            | Excess | Notes |
|---------|-------|----------------------------------|--------|-------|
| 78-93-3 |       | 200 ppm<br>600 mg/m <sup>3</sup> |        | 1(I)  |
| 67-63-0 |       | 200 ppm<br>500 mg/m <sup>3</sup> |        | 2(II) |

- Australia (NOHSC: 3008, 1995) :

| CAS       | TWA :                | STEL :                | Ceiling : | Definition : | Criteria : |
|-----------|----------------------|-----------------------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3              | -                     | -         | -            | -          |
| 78-93-3   | 150 ppm<br>445 mg/m3 | 300 ppm<br>890 mg/m3  |           | A            |            |
| 67-63-0   | 400 ppm<br>983 mg/m3 | 500 ppm<br>1230 mg/m3 |           | H            |            |

- Belgium (Arrêté du 19/11/2020) :

| CAS       | TWA :                            | STEL :                            | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|-----------------------------------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3                          | -                                 | -         | -            | -          |
| 78-93-3   | 200 ppm<br>600 mg/m <sup>3</sup> | 300 ppm<br>900 mg/m <sup>3</sup>  |           |              |            |
| 67-63-0   | 200 ppm<br>500 mg/m <sup>3</sup> | 400 ppm<br>1000 mg/m <sup>3</sup> |           |              |            |

- Brazil :

| CAS     | TWA :   | STEL : | Ceiling : | Definition : | Criteria : |
|---------|---------|--------|-----------|--------------|------------|
| 78-93-3 | 155 ppm | -      | -         | -            | -          |
| 67-63-0 | 310 ppm | -      | -         | -            | -          |

- Canada / Alberta (Occupational health and safety code, 2009) :

| CAS       | TWA :                | STEL :               | Ceiling : | Definition : | Criteria : |
|-----------|----------------------|----------------------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3              | -                    | -         | -            | -          |
| 78-93-3   | 200 ppm<br>590 mg/m3 | 300 ppm<br>885 mg/m3 |           |              |            |
| 67-63-0   | 200 ppm<br>492 mg/m3 | 400 ppm<br>984 mg/m3 |           |              |            |

- Canada / British Colombia (2009) :

| CAS       | TWA :   | STEL :  | Ceiling : | Definition : | Criteria : |
|-----------|---------|---------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3 | -       | -         | -            | -          |
| 78-93-3   | 50 ppm  | 100 ppm |           |              |            |
| 67-63-0   | 200 ppm | 400 ppm |           |              |            |

- Canada / Ontario (Control of exposure to biological or chemical agents, regulation 491/2009) :

| CAS     | TWA :   | STEL :  | Ceiling : | Definition : | Criteria : |
|---------|---------|---------|-----------|--------------|------------|
| 67-63-0 | 200 ppm | 400 ppm | -         | -            | -          |

- Canada / Quebec (Regulations on occupational health and safety) :

| CAS       | TWA :                | STEL :                | Ceiling : | Definition : | Criteria : |
|-----------|----------------------|-----------------------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3              | -                     | -         | -            | -          |
| 78-93-3   | 50 ppm<br>150 mg/m3  | 100 ppm<br>300 mg/m3  |           |              |            |
| 67-63-0   | 400 ppm<br>983 mg/m3 | 500 ppm<br>1230 mg/m3 |           |              |            |

- China (GBZ 2.1, 2007) :

| CAS       | TWA :     | STEL :    | Anm : | TWA : | STEL : | Anm : |
|-----------|-----------|-----------|-------|-------|--------|-------|
| 7440-50-8 | 0.2 mg/m3 | 0.6 mg/m3 | -     | -     | -      | -     |

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|         |           |           |  |  |  |  |
|---------|-----------|-----------|--|--|--|--|
| 78-93-3 | 300 mg/m3 | 600 mg/m3 |  |  |  |  |
| 67-63-0 | 350 mg/m3 | 700 mg/m3 |  |  |  |  |

- Denmark (2020) :

| Stof      | TWA                              | VSTEL   | Loftvaerdi | Anm |
|-----------|----------------------------------|---------|------------|-----|
| 7440-50-8 | -                                | 1 mg/m3 | -          |     |
| 78-93-3   | 50 ppm<br>145 mg/m <sup>3</sup>  |         |            | EH  |
| 67-63-0   | 200 ppm<br>490 mg/m <sup>3</sup> |         |            |     |

- France (INRS - ED984 / 2020-1546) :

| CAS     | VME-ppm : | VME-mg/m3 : | VLE-ppm : | VLE-mg/m3 : | Notes : | TMP No : |
|---------|-----------|-------------|-----------|-------------|---------|----------|
| 78-93-3 | 200       | 600         | 300       | 900         | *       | 84       |
| 67-63-0 | -         | -           | 400       | 980         | -       | 84       |

- Finland (HTP-värden 2018) :

| CAS       | TWA :   | STEL :                           | Ceiling : | Definition : | Criteria : |
|-----------|---------|----------------------------------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3 | -                                | -         | -            | -          |
| 78-93-3   |         | 100 ppm<br>300 mg/m <sup>3</sup> |           |              |            |

- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), 2019) :

| CAS       | TWA :                            | STEL :                           | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|----------------------------------|-----------|--------------|------------|
| 7440-50-8 | 0.2 mg/m3                        | -                                | -         | -            | -          |
| 78-93-3   | 200 ppm<br>600 mg/m <sup>3</sup> | 300 ppm<br>900 mg/m <sup>3</sup> |           | VLB®, VLI    |            |
| 67-63-0   | 200 ppm<br>500 mg/m <sup>3</sup> | 400 ppm<br>1 mg/m <sup>3</sup>   |           | VLB®, s      |            |

- Hong-Kong (Code of practice on control of air impurities (Chemicals substances) in the workplace, 04/2002) :

| CAS       | TWA :   | STEL :  | Ceiling : | Definition : | Criteria : |
|-----------|---------|---------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3 | -       | -         | -            | -          |
| 78-93-3   | 200 ppm | 300 ppm | -         | -            | -          |
| 67-63-0   | 400 ppm | 500 ppm | -         | -            | -          |

- Ireland (Code of practice for the Chemical Agents Regulations, 2016) :

| CAS       | TWA :                            | STEL :                           | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|----------------------------------|-----------|--------------|------------|
| 7440-50-8 | 0.2 mg/m3                        | -                                | -         | -            | -          |
| 78-93-3   | 200 ppm<br>600 mg/m <sup>3</sup> | 300 ppm<br>900 mg/m <sup>3</sup> |           |              |            |
| 67-63-0   | 200 ppm                          | 400 ppm                          |           |              |            |

- Japan (JSOH, 17/05/2018) :

| CAS     | TWA :                            | STEL : | Ceiling :                        | Definition : | Criteria : |
|---------|----------------------------------|--------|----------------------------------|--------------|------------|
| 78-93-3 | 200 ppm<br>590 mg/m <sup>3</sup> |        |                                  |              |            |
| 67-63-0 |                                  |        | 400 ppm<br>980 mgm/ <sup>3</sup> |              |            |

- Malaysia :

| CAS       | TWA :   | STEL : | Ceiling : | Definition : | Criteria : |
|-----------|---------|--------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3 | -      | -         | -            | -          |
| 78-93-3   | 200 ppm | -      | -         | -            | -          |
| 67-63-0   | 400 ppm | -      | -         | -            | -          |

- Mexico :

| CAS       | TWA :   | STEL :  | Ceiling : | Definition : | Criteria : |
|-----------|---------|---------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m3 | 2 mg/m3 | -         | -            | -          |
| 78-93-3   | 200 ppm | 300 ppm | -         | -            | -          |
| 67-63-0   | 400 ppm | 500 ppm | -         | -            | -          |

- Norway (Veiledning om administrative normer for forurensning i arbeidsatmosfære, 2019) :

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| CAS       | TWA :                            | STEL : | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|--------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m <sup>3</sup>              |        |           |              |            |
| 78-93-3   | 75 ppm<br>220 mg/m <sup>3</sup>  |        |           | E            |            |
| 67-63-0   | 100 ppm<br>245 mg/m <sup>3</sup> |        |           |              |            |

- New Zealand (Workplace Exposure standards, 2002) :

| CAS       | TWA :                            | STEL :                            | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|-----------------------------------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m <sup>3</sup>              | -                                 | -         | -            | -          |
| 78-93-3   | 150 ppm<br>445 mg/m <sup>3</sup> | 300 ppm<br>890 mg/m <sup>3</sup>  |           |              |            |
| 67-63-0   | 400 ppm<br>983 mg/m <sup>3</sup> | 500 ppm<br>1230 mg/m <sup>3</sup> |           |              |            |

- Netherlands / MAC-waarde (10 december 2014) :

| CAS       | TWA :                 | STEL :                | Ceiling : | Definition : | Criteria : |
|-----------|-----------------------|-----------------------|-----------|--------------|------------|
| 7440-50-8 | 0.2 mg/m <sup>3</sup> | -                     | -         | -            | -          |
| 78-93-3   | 590 mg/m <sup>3</sup> | 900 mg/m <sup>3</sup> |           | Huid         |            |
| 67-63-0   | 250 ppm               | -                     | -         | -            | -          |

- Poland (Dz. U. z 2018 r. poz. 917, 1000 i 1076) :

| CAS       | TWA :                 | STEL :                 | Ceiling : | Definition : | Criteria : |
|-----------|-----------------------|------------------------|-----------|--------------|------------|
| 7440-50-8 | 0.2 mg/m <sup>3</sup> |                        |           |              |            |
| 78-93-3   | 450 mg/m <sup>3</sup> | 900 mg/m <sup>3</sup>  | -         | -            | -          |
| 67-63-0   | 900 mg/m <sup>3</sup> | 1200 mg/m <sup>3</sup> |           |              |            |

- Czech Republic (Regulation No. 361/2007) :

| CAS       | TWA :                 | STEL :                 | Ceiling : | Definition : | Criteria : |
|-----------|-----------------------|------------------------|-----------|--------------|------------|
| 7440-50-8 | 0.1 mg/m <sup>3</sup> | 0.2 mg/m <sup>3</sup>  | -         | -            | -          |
| 78-93-3   | 600 mg/m <sup>3</sup> | 900 mg/m <sup>3</sup>  |           | I            |            |
| 67-63-0   | 500 mg/m <sup>3</sup> | 1000 mg/m <sup>3</sup> |           | I            |            |

- Slovakia (Règlement 300/2007, 471/2011 23/11/2011) :

| CAS       | TWA :                            | STEL :                             | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|------------------------------------|-----------|--------------|------------|
| 7440-50-8 |                                  |                                    | II..1     |              |            |
| 7440-66-6 | 2 mg/m <sup>3</sup>              |                                    |           |              |            |
| 78-93-3   | 200 ppm<br>600 mg/m <sup>3</sup> | 300 ppm<br>900 mg/m <sup>3</sup>   |           |              |            |
| 67-63-0   | 200 ppm<br>500 mg/m <sup>3</sup> | 400 ppm<br>1 000 mg/m <sup>3</sup> |           |              |            |

- Switzerland (SUVAPRO 2019) :

| CAS       | VME                              | VLE   | Valeur plafond | Notations |
|-----------|----------------------------------|---|----------------|-----------|
| 7440-50-8 | 0.1 ppm                          | 0.2 mg/m <sup>3</sup>                           |                |           |
| 78-93-3   | 200 ppm<br>590 mg/m <sup>3</sup> | 200 mg/m <sup>3</sup><br>590 fc/m <sup>3</sup>  |                |           |
| 67-63-0   | 200 ppm<br>500 mg/m <sup>3</sup> | 400 mg/m <sup>3</sup><br>1000 fc/m <sup>3</sup> |                |           |

- Sweden (AFS 2018 :1) :

| CAS       | TWA :                            | STEL :                           | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|----------------------------------|-----------|--------------|------------|
| 7440-50-8 | 0.01 mg/m <sup>3</sup>           |                                  |           |              |            |
| 78-93-3   | 50 ppm<br>150 mg/m <sup>3</sup>  | 300 ppm<br>900 mg/m <sup>3</sup> |           |              |            |
| 67-63-0   | 150 ppm<br>350 mg/m <sup>3</sup> | 250 ppm<br>600 mg/m <sup>3</sup> |           | V            |            |

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

| CAS       | TWA :                            | STEL :                           | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|----------------------------------|-----------|--------------|------------|
| 7440-50-8 | 0.2 mg/m <sup>3</sup>            | -                                | -         | -            | -          |
| 78-93-3   | 200 ppm<br>600 mg/m <sup>3</sup> | 300 ppm<br>899 mg/m <sup>3</sup> |           | Sk. BMGV     |            |

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|---------|----------------------------------|-----------------------------------|--|--|--|
| 67-63-0 | 400 ppm<br>999 mg/m <sup>3</sup> | 500 ppm<br>1250 mg/m <sup>3</sup> |  |  |  |
|---------|----------------------------------|-----------------------------------|--|--|--|

- USA / NIOSH REL (National Institute for Occupational Safety and Health, Recommended exposure limits) :

| CAS       | TWA :                 | STEL :  | Ceiling : | Definition : | Criteria : |
|-----------|-----------------------|---------|-----------|--------------|------------|
| 7440-50-8 | 0.1 mg/m <sup>3</sup> | -       | -         | -            | -          |
| 78-93-3   | 200 ppm               | 300 ppm | -         | -            | -          |
| 67-63-0   | 400 ppm               | 500 ppm | -         | -            | -          |

- USA / NIOSH IDLH (National Institute for Occupational Safety and Health, Immediately Dangerous to Life or Health Concentrations) :

| CAS       | TWA :                            | STEL :                            | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|-----------------------------------|-----------|--------------|------------|
| 7440-50-8 | -                                | -                                 | 100       | -            | -          |
| 78-93-3   | 200 ppm<br>590 mg/m <sup>3</sup> | 300 ppm<br>885 mg/m <sup>3</sup>  |           |              |            |
| 67-63-0   | 400 ppm<br>980 mg/m <sup>3</sup> | 500 ppm<br>1225 mg/m <sup>3</sup> |           |              |            |

- USA / OSHA PEL (Occupational Safety and Health Administration, Permissible Exposure Limits) :

| CAS       | TWA :                            | STEL : | Ceiling : | Definition : | Criteria : |
|-----------|----------------------------------|--------|-----------|--------------|------------|
| 7440-50-8 | 1 mg/m <sup>3</sup>              | -      | -         | -            | -          |
| 78-93-3   | 200 ppm<br>590 mg/m <sup>3</sup> |        |           |              |            |
| 67-63-0   | 400 ppm<br>980 mg/m <sup>3</sup> |        |           |              |            |

**8.2. Exposure controls****Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**➤ - Eye / face protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

**➤ - Hand protection**

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

**- Body protection**

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**>SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****Physical state**

Physical state :

Fluid liquid.

**➤ Colour**

Unspecified

**➤ Odour**

Odour threshold :

Not stated.



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|   |                           |
|---|---------------------------|
| <b>&gt; Melting point</b>   |                           |
| Melting point/melting range :   | Not relevant.             |
| <b>&gt; Freezing point</b>  |                           |
| Freezing point / Freezing range :                                     | Not stated.               |
| <b>Boiling point or initial boiling point and boiling range</b>       |                           |
| Boiling point/boiling range :   | 76 °C.                    |
| <b>&gt; Flammability</b>  |                           |
| Flammability (solid, gas) :   | Not stated.               |
| <b>&gt; Lower and upper explosion limit</b>                           |                           |
| Explosive properties, lower explosivity limit (%) :                   | Not stated.               |
| Explosive properties, upper explosivity limit (%) :                   | Not stated.               |
| <b>Flash point</b>  |                           |
| Flash Point :   | 10.00 °C.                 |
| <b>Auto-ignition temperature</b>                                      |                           |
| Self-ignition temperature :   | Not relevant.             |
| <b>Decomposition temperature</b>                                      |                           |
| Decomposition point/decomposition range :                             | Not relevant.             |
| <b>&gt; pH</b>  |                           |
| pH :  | Not relevant.             |
| pH (aqueous solution) :   | Not stated.               |
| <b>&gt; Kinematic viscosity</b>                                       |                           |
| Viscosity :   | Not stated.               |
| <b>&gt; Solubility</b>  |                           |
| Water solubility :  | Dilutable.                |
| Fat solubility :  | Not stated.               |
| <b>&gt; Partition coefficient n-octanol/water (log value)</b>         |                           |
| Partition coefficient: n-octanol/water :                              | Not stated.               |
| <b>Vapour pressure</b>  |                           |
| Vapour pressure (50°C) :  | Below 110 kPa (1.10 bar). |
| <b>Density and/or relative density</b>                                |                           |
| Density :   | 1.00                      |
| <b>&gt; Relative vapour density</b>                                   |                           |
| Vapour density :  | Not stated.               |
| <b>&gt; 9.2. Other information</b>                                    |                           |
| VOC (g/l) :   | 717.38                    |
| <b>&gt; 9.2.1. Information with regard to physical hazard classes</b> |                           |
| No data available.  |                           |
| <b>&gt; 9.2.2. Other safety characteristics</b>                       |                           |
| No data available.  |                           |

**>SECTION 10 : STABILITY AND REACTIVITY****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

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Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**➤SECTION 11 : TOXICOLOGICAL INFORMATION****➤ 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Splashes in the eyes may cause irritation and reversible damage

**11.1.1. Substances**

No toxicological data available for the substances.

**11.1.2. Mixture**

No toxicological data available for the mixture.

**11.2. Information on other hazards****➤ Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 88-12-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 67-63-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 9003-39-8 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 64-17-5 : IARC Group 1 : The agent is carcinogenic to humans.

**➤SECTION 12 : ECOLOGICAL INFORMATION**

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity****12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :**

20 01 27 \* paint, inks, adhesives and resins containing dangerous substances

15 01 02 plastic packaging

**>SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 - ICAO/IATA 2021).

**14.1. UN number or ID number**

1263

**14.2. UN proper shipping name**

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

**14.3. Transport hazard class(es)**

- Classification :



3

**14.4. Packing group**

II

**14.5. Environmental hazards**

- Environmentally hazardous material :

**14.6. Special precautions for user**

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ  | Provis.          | EQ | Cat. | Tunnel |
|---------|-------|------|----------|-------|--------|-----|------------------|----|------|--------|
|         | 3     | F1   | II       | 3     | 33     | 5 L | 163 367 640D 650 | E2 | 2    | D/E    |

  

| IMDG | Class | 2°Label | Pack gr. | LQ  | EMS      | Provis. | EQ | Stowage Handling | Segregation |
|------|-------|---------|----------|-----|----------|---------|----|------------------|-------------|
|      | 3     | -       | II       | 5 L | F-E. S-E | 163 367 | E2 | Category B       | -           |

  

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note        | EQ |
|------|-------|---------|----------|----------|----------|-------|-------|-------------|----|
|      | 3     | -       | II       | 353      | 5 L      | 364   | 60 L  | A3 A72 A192 | E2 |
|      | 3     | -       | II       | Y341     | 1 L      | -     | -     | A3 A72 A192 | E2 |

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For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(zinc powder - zinc dust (stabilised))

**14.7. Maritime transport in bulk according to IMO instruments**

No data available.

**>SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****> - Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

**- Container information:**

The mixture is contained in packaging that does not exceed 125 ml.

Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

**- Particular provisions :**

No data available.

**15.2. Chemical safety assessment**

No data available.

**>SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**> Wording of the phrases mentioned in section 3 :**

|        |   |
|--------|---|
| H225   | Highly flammable liquid and vapour.                   |
| H319   | Causes serious eye irritation.                        |
| H336   | May cause drowsiness or dizziness.                    |
| H400   | Very toxic to aquatic life.                           |
| H410   | Very toxic to aquatic life with long lasting effects. |
| H411   | Toxic to aquatic life with long lasting effects.      |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

**> Abbreviations :**

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS02 : Flame

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GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

|> Modification compared to the previous version

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| Références | Désignation Référence   |
|------------|-------------------------|
| 417056     | COLOREX 5X45ML OR RICHE |
| 417057     | COLOREX 5X45ML OR PALE  |