UK Certified Distributor
handjet.co.uk - sales@handjet.co.uk
Tel: 01543 502202

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

**1.1 Product identifier:** 3A001KR Cleaner

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

Relevant uses: Additive for varnishes and paints. For professional use 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:**

EBS Ink-Jet Systeme GmbH
Alte Ziegelei 19-25
D-51588 Nümbrecht Elsenroth - Germany
Phone.: +49 2293 939 0 -
Fax: +49 2293 939 3
mail@ebs-inkjet.de
www.ebs-inkjet.de

**1.4 Emergency telephone number:**

For medical emergency call Resuscitation Centre of the Free University of Berlin – telephone: +49 (0) 30 3035-3466.
For chemical emergency, spill, leak, fire, exposure or accident call CHEMTREC - day or night within USA and Canada: 1-800-424-9300.
Outside USA and Canada: +1 703-527-3887 (collect calls accepted).

## SECTION 2: HAZARDS IDENTIFICATION

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

**Directive 67/548/EC and Directive 1999/45/EC:**

This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) nº1907/2006 (REACH regulation).

F: R11 - Highly flammable
Xi: R36 - Irritating to eyes
R66 - Repeated exposure may cause skin dryness or cracking
R67 - Vapours may cause drowsiness and dizziness

**CLP Regulation (EC) nº 1272/2008:**

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

Eye Irrit. 2: Eye irritation, Category 2
Flam. Liq. 2: Flammable liquids, Category 2
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3

**2.2 Label elements:**

**Directive 67/548/EC and Directive 1999/45/EC:**

In accordance with the legislation, the elements on the label are as follows:

F

Highly flammable

Xi

Irritant

**R Phrases:**

R11: Highly flammable
R36: Irritating to eyes
R66: Repeated exposure may cause skin dryness or cracking
R67: Vapours may cause drowsiness and dizziness

**S Phrases:**

S16: Keep away from sources of ignition - No smoking
S2: Keep out of the reach of children
S25: Avoid contact with eyes
S36: Wear suitable protective clothing
S43: In case of fire, use polyvalent powder ABC
S46: If swallowed, seek medical advice immediately and show this container or label
S51: Use only in well-ventilated areas
S9: Keep container in a well-ventilated place

- CONTINUED ON NEXT PAGE -

## SECTION 2: HAZARDS IDENTIFICATION (continue)

**Supplementary information:**

Non-applicable

**CLP Regulation (EC) nº 1272/2008:**

**Danger**

**Hazard indications:**

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

**Cautionary advice:**

P271: Use only outdoors or in a well-ventilated area
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P370+P378: In case of fire: Use ABC powder extinguisher to put it out

**Supplementary information:**

EUH066: Repeated exposure may cause skin dryness or cracking

**Substances that contribute to the classification**

Acetone; 2-butanone

**2.3 Other hazards:**

Non-applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical description:** Mixture composed of solvents

**Components:**

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | | Concentration |
|---|---|---|---|
| CAS: 78-93-3<br>EC: 201-159-0<br>Index: 606-002-00-3<br>REACH: 01-2119457290-43-XXXX | **2-butanone** | ATP CLP00 | **98 - < 99 %** |
| | Directive 67/548/EC | F: R11; Xi: R36; R66; R67 | |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger | |
| CAS: 67-64-1<br>EC: 200-662-2<br>Index: 606-001-00-8<br>REACH: 01-2119471330-49-XXXX | **Acetone** | ATP CLP00 | **0,1 - < 1 %** |
| | Directive 67/548/EC | F: R11; Xi: R36; R66; R67 | |
| | Regulation 1272/2008 | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger | |

To obtain more information on the risk of the substances consult sections 8, 11, 12 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 MSDS 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:**

- CONTINUED ON NEXT PAGE -

## SECTION 4: FIRST AID MEASURES (continue)

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 luke warm 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, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

**By consumption:**

In case of consumption, seek immediate medical assistance showing the MSDS of this product.

**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:**

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

**5.1 Extinguishing media:**

If possible use polyvalent powder fire exginguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2). 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 subproducts 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 inflamation, 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 inertizing 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 dangerous 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:**

- CONTINUED ON NEXT PAGE -

## SECTION 7: HANDLING AND STORAGE (continue)

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

Minimum Temp.: 5 ºC

Maximun Temp.: 25 ºC

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food

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

Cleaner.

## 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 | |
|---|---|---|---|
| 2-butanone | IOELV (8h) | 200 ppm | 600 mg/m³ |
| CAS: 78-93-3 | IOELV (STEL) | 300 ppm | 900 mg/m³ |
| EC: 201-159-0 | Year | 2012 | |
| Acetone | IOELV (8h) | 500 ppm | 1210 mg/m³ |
| CAS: 67-64-1 | IOELV (STEL) | | |
| EC: 200-662-2 | Year | 2012 | |

**DNEL (Workers):**

| Identification | | Short exposure | | Long exposure | |
|---|---|---|---|---|---|
| | | Systemic | Local | Systemic | Local |
| 2-butanone | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 78-93-3 | Dermal | Non-applicable | Non-applicable | 1161 mg/kg | Non-applicable |
| EC: 201-159-0 | Inhalation | Non-applicable | Non-applicable | 600 mg/m³ | Non-applicable |
| Acetone | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 67-64-1 | Dermal | Non-applicable | Non-applicable | 186 mg/kg | Non-applicable |
| EC: 200-662-2 | Inhalation | Non-applicable | 2420 mg/m³ | 1210 mg/m³ | Non-applicable |

**DNEL (Population):**

| Identification | | Short exposure | | Long exposure | |
|---|---|---|---|---|---|
| | | Systemic | Local | Systemic | Local |
| 2-butanone | Oral | Non-applicable | Non-applicable | 31 mg/kg | Non-applicable |
| CAS: 78-93-3 | Dermal | Non-applicable | Non-applicable | 412 mg/kg | Non-applicable |
| EC: 201-159-0 | Inhalation | Non-applicable | Non-applicable | 106 mg/m³ | Non-applicable |

- CONTINUED ON NEXT PAGE -

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

| Identification | | Short exposure | | Long exposure | |
|---|---|---|---|---|---|
| | | Systemic | Local | Systemic | Local |
| Acetone | Oral | Non-applicable | Non-applicable | 62 mg/kg | Non-applicable |
| CAS: 67-64-1 | Dermal | Non-applicable | Non-applicable | 62 mg/kg | Non-applicable |
| EC: 200-662-2 | Inhalation | Non-applicable | Non-applicable | 200 mg/m³ | Non-applicable |

**PNEC:**

| Identification | | | | |
|---|---|---|---|---|
| 2-butanone | STP | 709 mg/L | Fresh water | 55,8 mg/L |
| CAS: 78-93-3 | Soil | 22,5 mg/kg | Marine water | 55,8 mg/L |
| EC: 201-159-0 | Intermittent | 55,8 mg/L | Sediment (Fresh water) | 284,74 mg/kg |
| | Oral | 1000 g/kg | Sediment (Marine water) | 284,7 mg/kg |
| Acetone | STP | 100 mg/L | Fresh water | 10,6 mg/L |
| CAS: 67-64-1 | Soil | 29,5 mg/kg | Marine water | 1,06 mg/L |
| EC: 200-662-2 | Intermittent | 21 mg/L | Sediment (Fresh water) | 30,4 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 3,04 mg/kg |

### 8.2 Exposure controls:

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

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using indivudual protection equipment they should have the ""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 additional 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

| LRP Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
| Mandatory respiratory tract protection | Filter mask for gases and vapours | CE 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

| LRP Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
| Mandatory hand protection | NON-disposable chemical protective gloves | CE CAT III | EN 374-1:2003<br>EN 374-3:2003/AC:2006<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. |

D.- Ocular and facial protection

| LRP Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
| Mandatory face protection | Face mask | CE CAT II | EN 166:2001<br>EN 167:2001<br>EN 168:2001<br>EN 172:1994/A1:2000<br>EN 172:1994/A2:2001<br>EN 165:2005 | Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing. |

E.- Bodily protection

| LRP Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
| Mandatory complete body protection | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties | CE CAT III | EN 1149-1,2,3<br>EN 13034:2005+A1:2009<br>EN ISO 13982-1:2004/A1:2010<br>EN ISO 6529:2001<br>EN ISO 6530:2005<br>EN 340:2003<br>EN 464:1994 | For professional use only. Clean periodically according to the manufacturer´s instructions. |

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

| LRP Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---|---|---|---|---|
| Mandatory foot protection | Safety footwear for protection against chemical risk, with antistatic and heat resistent properties | CE CAT III | EN 13287:2007<br>EN ISO 20345:2011<br>EN 13832-1:2006<br>EN ISO 20344:2011 | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|---|---|---|---|
| Emergency shower | ANSI Z358-1<br>ISO 3864-1:2002 | 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

**Volatil organic compounds:**

With regard to Directive 1999/13/EC, this product has the following characteristics:

| | |
|---|---|
| V.O.C. (Supply): | 100 % weight |
| V.O.C. density at 20 ºC: | 803,95 kg/m³ (803,95 g/L) |
| Average carbon number: | 3,95 |
| Average molecular weight: | 71,41 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 ºC: | Liquid |
| Appearance: | Characteristic |
| Color: | ☐ Colourless |
| Odor: | Characteristic |

**Volatility:**

| | |
|---|---|
| Boiling point at atmospheric pressure: | 78 ºC |
| Vapour pressure at 20 ºC: | 10530 Pa |
| Vapour pressure at 50 ºC: | 38304 Pa (38 kPa) |
| Evaporation rate at 20 ºC: | Non-applicable * |

**Product description:**

| | |
|---|---|
| Density at 20 ºC: | 804 kg/m³ |
| Relative density at 20 ºC: | 0,804 |
| Dynamic viscosity at 20 ºC: | 0,41 cP |
| Kinematic viscosity at 20 ºC: | 0,51 cSt |
| Kinematic viscosity at 40 ºC: | Non-applicable * |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 20 ºC: | Non-applicable * |
| Partition coefficient n-octanol/water 20 ºC: | Non-applicable * |
| Solubility in water at 20 ºC: | Non-applicable * |
| Solubility property: | Non-applicable * |

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

- CONTINUED ON NEXT PAGE -

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

Decomposition temperature: Non-applicable *

**Flammability:**

Flash Point: -7 ºC

Autoignition temperature: 516 ºC

Lower flammability limit: Not available

Upper flammability limit: Not available

**9.2 Other information:**

Surface tension at 20 ºC: 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 if the following technical instructions storage of chemicals. See section 7.

**10.2 Chemical stability:**

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

**10.3 Possibility of hazardous reactions:**

Under normal conditions no hazardous reactions are 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 |
|---|---|---|---|---|
| Not applicable | Not applicable | Avoid direct impact | Avoid direct impact | Not applicable |

**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 (CO2), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects:**

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

**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:

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.

B- Inhalation:

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.

C- Contact with the skin and the eyes:

Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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## SECTION 11: TOXICOLOGICAL INFORMATION (continue)

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.

E- Sensitizing effects:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensibilizing effects. For more information see section 3.

F- Specific target organ toxicity (STOT)-time exposure:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

G- Specific target organ toxicity (STOT)-repeated exposure:

Repeated exposure may cause skin dryness or cracking

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 |
|---|---|---|---|
| Acetone | LD50 oral | 5800 mg/kg | Rat |
| CAS: 67-64-1 | LD50 dermal | 7426 mg/kg | Rabbit |
| EC: 200-662-2 | LC50 inhalation | Non-applicable | |
| 2-butanone | LD50 oral | 4000 mg/kg | Rat |
| CAS: 78-93-3 | LD50 dermal | 6400 mg/kg | Rabbit |
| EC: 201-159-0 | LC50 inhalation | 23,5 mg/L (4 h) | Rat |

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the mixture itself is not available

**12.1 Toxicity:**

| Identification | Acute toxicity | | Specie | Genus |
|---|---|---|---|---|
| 2-butanone | LC50 | 3220 mg/L (96 h) | Pimephales promelas | Fish |
| CAS: 78-93-3 | EC50 | 5091 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 201-159-0 | EC50 | 4300 mg/L (168 h) | Scenedesmus quadricauda | Alga |
| Acetone | LC50 | 5540 mg/L (96 h) | Oncorhynchus mykiss | Fish |
| CAS: 67-64-1 | EC50 | 23,5 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 200-662-2 | EC50 | 3400 mg/L (48 h) | Chlorella pyrenoidosa | Alga |

**12.2 Persistence and degradability:**

| Identification | Degradability | | Biodegradability | |
|---|---|---|---|---|
| 2-butanone | BOD5 | 2.03 g O2/g | Concentration | Non-applicable |
| CAS: 78-93-3 | Code | 2.31 g O2/g | Period | 20 days |
| EC: 201-159-0 | BOD5/COD | 0.88 | % Biodegradable | 89 % |
| Acetone | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 67-64-1 | Code | Non-applicable | Period | 28 days |
| EC: 200-662-2 | BOD5/COD | 0.96 | % Biodegradable | 96 % |

**12.3 Bioaccumulative potential:**

| Identification | Bioaccumulation potential | |
|---|---|---|
| 2-butanone | BCF | 3 |
| CAS: 78-93-3 | Pow Log | 0,29 |
| EC: 201-159-0 | Potential | Low |
| Acetone | BCF | 1 |
| CAS: 67-64-1 | Pow Log | -0,24 |
| EC: 200-662-2 | Potential | Low |

**12.4 Mobility in soil:**

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## SECTION 12: ECOLOGICAL INFORMATION (continue)

| Identification | Absorption/desorption | | Volatility | |
|---|---|---|---|---|
| 2-butanone | Koc | 30 | Henry | 5,765E+0 Pa·m³/mol |
| CAS: 78-93-3 | Conclusion | Very High | Dry soil | Yes |
| EC: 201-159-0 | Surface tension | 23960 N/m (25 ºC) | Moist soil | Yes |
| Acetone | Koc | 1 | Henry | 2,929E+0 Pa·m³/mol |
| CAS: 67-64-1 | Conclusion | Very High | Dry soil | Yes |
| EC: 200-662-2 | Surface tension | 23040 N/m (25 ºC) | Moist soil | Yes |

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

Non-applicable

**12.6 Other adverse effects:**

No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods:**

| Code | Description | Waste class (Directive 2008/98/EC) |
|---|---|---|
| 08 01 19* | Aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances | Dangerous |

**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 (2000/532/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 recommended disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) nº1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

## SECTION 14: TRANSPORT INFORMATION

**Transport of dangerous goods by land:**

With regard to ADR 2013 and RID 2013:

**14.1 UN number:** UN1263

**14.2 UN proper shipping name:** PAINT RELATED MATERIAL

**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, 640D, 650

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 73/78 and the IBC Code:** Non-applicable

**Transport of dangerous goods by sea:**

With regard to IMDG 36-12:

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## SECTION 14: TRANSPORT INFORMATION (continue)

| | | |
|---|---|---|
| **14.1** | **UN number:** | UN1263 |
| **14.2** | **UN proper shipping name:** | PAINT RELATED MATERIAL |
| **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, 944 |
| | EmS Codes: | F-E, S-E |
| | Physico-Chemical properties: | see section 9 |
| | Limited quantities: | 5 L |
| **14.7** | **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** | Non-applicable |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2014:

| | | |
|---|---|---|
| **14.1** | **UN number:** | UN1263 |
| **14.2** | **UN proper shipping name:** | PAINT RELATED MATERIAL |
| **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 73/78 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

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

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 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):**

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.

**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:**

Non-applicable

- CONTINUED ON NEXT PAGE -

## SECTION 15: REGULATORY INFORMATION (continue)

**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 453/2010)

**Modifications related to the previous security card which concerns the ways of managing risks. :**

Transport information:

· UN number

**Text of R-phrases considered in section 3:**

**Directive 67/548/EC and Directive 1999/45/EC:**

R11: Highly flammable
R36: Irritating to eyes
R66: Repeated exposure may cause skin dryness or cracking
R67: Vapours may cause drowsiness and dizziness

**CLP Regulation (EC) nº 1272/2008:**

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

**Advice related to training:**

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
-CL50: Lethal Concentration 50
-EC50: Effective concentration 50
-Log-POW: Octanol–water partition coefficient
-Koc: Partition coefficient of organic carbon

The information contained in this security 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 security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -