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

1.1 Product identifier:

PVC PRIMER - Hard PVC pipes primer
24-68
2-butanone

CAS: 78-93-3
EC: 201-159-0
Index: 606-002-00-3
REACH: 01-2119457290-43-XXXX

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

Relevant uses: Primer for rigid PVC
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:

EVOCHEM S.A.
Tzaverdella Place
133 41 PHILI , ATTICA - GREECE
Phone.: 0030 210 5590460 , 0030 210 5590155 -
Fax: 0030 210 6254737 , 0030 210 5590244
info@evochem.gr; vmergoupis@evochem.gr;
sales@evochem.gr
www.evochem.gr

1.4 Emergency telephone number: National Poisoning Center 2107793777

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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

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) nº 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:
P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P264: Wash thoroughly after use
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
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P501: Dispose of contents and / or their container according to the separated collection system used in your municipality

Supplementary information:
EUH066: Repeated exposure may cause skin dryness or cracking

2.3 Other hazards:
Non-applicable
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:
Chemical description: Mixture composed of resins in solvents

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

<table>
<thead>
<tr>
<th>Identification</th>
<th>Chemical name-Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 78-93-3</td>
<td>2-butanone</td>
<td>ATP CLP00</td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td></td>
<td>100 %</td>
</tr>
<tr>
<td>Index: 605-002-90-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REACH: 01-21946790-43-XXXX</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

3.2 Mixture:
Non-applicable

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:
This product does not contain substances classified as dangerous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

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

By eye contact:
Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, 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:
In case of consumption, seek immediate medical assistance showing the SDS 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:
Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:
Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED 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:
SECTION 5: FIREFIGHTING MEASURES (continue)

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. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

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:

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

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on 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 °C

Maximum Temp.: 35 °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
## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

<table>
<thead>
<tr>
<th>Identification</th>
<th>Environmental limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IOELV (8h)</td>
</tr>
<tr>
<td>2-butanone</td>
<td>200 ppm</td>
</tr>
<tr>
<td>CAS: 78-93-3</td>
<td>300 ppm</td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td></td>
</tr>
</tbody>
</table>

### DNEL (Workers):

<table>
<thead>
<tr>
<th>Identification</th>
<th>Short exposure</th>
<th>Long exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Systemic</td>
<td>Local</td>
</tr>
<tr>
<td>2-butanone</td>
<td>Non-applicable</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>CAS: 78-93-3</td>
<td>Non-applicable</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td>Non-applicable</td>
<td>Non-applicable</td>
</tr>
</tbody>
</table>

### DNEL (General population):

<table>
<thead>
<tr>
<th>Identification</th>
<th>Short exposure</th>
<th>Long exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Systemic</td>
<td>Local</td>
</tr>
<tr>
<td>2-butanone</td>
<td>Non-applicable</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>CAS: 78-93-3</td>
<td>Non-applicable</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td>Non-applicable</td>
<td>Non-applicable</td>
</tr>
</tbody>
</table>

### PNEC:

<table>
<thead>
<tr>
<th>Identification</th>
<th>STP</th>
<th>Fresh water</th>
<th>Marine water</th>
<th>Sediment (Fresh water)</th>
<th>Sediment (Marine water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butanone</td>
<td>709 mg/L</td>
<td>55,8 mg/L</td>
<td>55,8 mg/L</td>
<td>284,74 mg/kg</td>
<td>284,7 mg/kg</td>
</tr>
<tr>
<td>CAS: 78-93-3</td>
<td>22,5 mg/kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td>55,8 mg/L</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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**

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>PPE</th>
<th>Labelling</th>
<th>CEN Standard</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter mask for gases and vapours</td>
<td>CE CAT III</td>
<td>EN 405:2001+A1:2009</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

**C. Specific protection for the hands**

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>PPE</th>
<th>Labelling</th>
<th>CEN Standard</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>NON-disposable chemical protective gloves</td>
<td>CE CAT III</td>
<td>EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

**D. Ocular and facial protection**

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>PPE</th>
<th>Labelling</th>
<th>CEN Standard</th>
<th>Remarks</th>
</tr>
</thead>
</table>

**E. Bodily protection**

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>PPE</th>
<th>Labelling</th>
<th>CEN Standard</th>
<th>Remarks</th>
</tr>
</thead>
</table>

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Date of compilation: 2/1/2015 Revised: 6/22/2015 Version: 2 (Replaced 1)
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>PPE</th>
<th>Labelling</th>
<th>CEN Standard</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>EN 1149-1,2,3</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>EN ISO 13982-1:2004/A1:2010</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>EN ISO 6592:2001</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>EN ISO 6530:2005</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>EN ISO 13688:2013</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EN 464:1994</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EN 13387:2009</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EN ISO 20345:2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EN 13832-1:2006</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EN ISO 20344:2011</td>
<td></td>
</tr>
</tbody>
</table>

For professional use only. Clean periodically according to the manufacturer’s instructions.

Replace boots at any sign of deterioration.

F.- Additional emergency measures

<table>
<thead>
<tr>
<th>Emergency measure</th>
<th>Standards</th>
<th>Emergency measure</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency shower</td>
<td>ANSI Z358-1</td>
<td>Eyewash stations</td>
<td>DIN 12 899</td>
</tr>
</tbody>
</table>

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): 100 % weight
V.O.C. density at 20 ºC: 804,6 kg/m³ (804,6 g/L)
Average carbon number: 4
Average molecular weight: 72,1 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: Transparent
- Color: Coloured
- Odor: Characteristic

Volatile:
- Boiling point at atmospheric pressure: 80 ºC
- Vapour pressure at 20 ºC: 9641 Pa
- Vapour pressure at 50 ºC: 35559 Pa (36 kPa)
- Evaporation rate at 20 ºC: Non-applicable *

Product description:
- Density at 20 ºC: 805 kg/m³
- Relative density at 20 ºC: 0,805
- Dynamic viscosity at 20 ºC: 0,41 cP
- Kinematic viscosity at 20 ºC: 0,51 cSt
- Kinematic viscosity at 40 ºC: Non-applicable *
- Concentration: 800 g/L (active ingredient)

*Not relevant due to the nature of the product, not providing information property of its hazards.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Vapour density at 20 °C</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water 20 °C</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Solubility in water at 20 °C</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Solubility properties</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>-85 °C</td>
</tr>
<tr>
<td>Flammability:</td>
<td></td>
</tr>
<tr>
<td>Flash Point:</td>
<td>-6 °C</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>516 °C</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>1,8 % Volume</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>10 % Volume</td>
</tr>
</tbody>
</table>

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 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 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:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Shock and friction</th>
<th>Contact with air</th>
<th>Increase in temperature</th>
<th>Sunlight</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Avoid direct impact</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

10.5 Incompatible materials:

<table>
<thead>
<tr>
<th>Category</th>
<th>Acids</th>
<th>Water</th>
<th>Combustive materials</th>
<th>Combustible materials</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Avoid direct impact</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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

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

A. - Ingestion:
- 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, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
SECTION 11: TOXICOLOGICAL INFORMATION (continue)

B- Inhalation:
   - 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:
   - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain 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 sensibilizing 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)-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:
   - 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: 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:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Acute toxicity</th>
<th>Genus</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butaneone CAS: 78-93-3</td>
<td>LD50 oral: 4000 mg/kg Rat</td>
<td></td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td>LD50 dermal: 6400 mg/kg Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 inhalation: 23.5 mg/L (4 h) Rat</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Acute toxicity</th>
<th>Specie</th>
<th>Genus</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butaneone CAS: 78-93-3</td>
<td>LC50: 3220 mg/L (96 h)</td>
<td>Pimephales promelas</td>
<td>Fish</td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td>EC50: 5091 mg/L (48 h)</td>
<td>Daphnia magna</td>
<td>Crustacean</td>
</tr>
<tr>
<td></td>
<td>EC50: 4300 mg/L (168 h)</td>
<td>Scenedesmus quadricauda</td>
<td>Algae</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Degradability</th>
<th>Biodegradability</th>
<th>Concentration</th>
<th>Period</th>
<th>% Biodegradable</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butaneone CAS: 78-93-3</td>
<td>BOD5: 2.03 g O2/g</td>
<td>Non-applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td>COD: 2.31 g O2/g</td>
<td></td>
<td></td>
<td>20 days</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BOD5/COD: 0.88</td>
<td>% Biodegradable</td>
<td></td>
<td>89%</td>
<td></td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential:
SECTION 12: ECOLOGICAL INFORMATION (continue)

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Identification</th>
<th>Bioaccumulation potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butane</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 78-93-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bioaccumulation potential**
- Low

**Absorption/desorption**
- Yes

**Volatility**
- Yes

**Surface tension**
- 23960 N/m (25 ºC)

**Henry**
- 3,755E+0 Pa·m³/mol

12.4 Mobility in soil:

<table>
<thead>
<tr>
<th>Compounds</th>
<th>Identification</th>
<th>Absorption/desorption</th>
<th>Volatility</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butane</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>EC: 201-159-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Absorption/desorption**
- Yes

**Volatility**
- Yes

**Surface tension**
- 23960 N/m (25 ºC)

**Henry**
- 3,755E+0 Pa·m³/mol

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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Waste class (Regulation (EU) No 1357/2014)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 04 09*</td>
<td>Waste adhesives and sealants containing organic solvents or other dangerous substances</td>
<td>Dangerous</td>
</tr>
</tbody>
</table>

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 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.


SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2015 and RID 2015:

14.1 UN number: UN1193

14.2 UN proper shipping name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)

14.3 Transport hazard class(es): 3

14.4 Packing group: II

14.5 Dangerous for the environment: No

14.6 Special precautions for user

- Special regulations: Non-applicable
- Tunnel restriction code: D/E
- Physico-Chemical properties: see section 9
- Limited quantities: 1 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:

- CONTINUED ON NEXT PAGE -
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.

Specific provisions in terms of protecting people or the environment:

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,
— "whooppee" cushions,
— silly string aerosols,
— imitation excrement,
— horns for parties,
— decorative flakes and foams,
— artificial cobwebs,
— stink bombs.

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

With regard to IMDG 37-14:

14.1 UN number: UN1193
14.2 UN proper shipping name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)
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: Non-applicable
   EmS Codes: F-E, S-D
   Physico-Chemical properties: see section 9
   Limited quantities: 1 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 2015:

14.1 UN number: UN1193
14.2 UN proper shipping name: ETHYL METHYL KETONE (METHYL ETHYL KETONE)
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

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

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

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

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,
— "whooppee" 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.
SECTION 15: REGULATORY INFORMATION (continue)

Other legislation:
The product could be affected by sectorial legislation

15.2 Chemical safety assessment:
The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:
This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) Nº 1907/2006 (Regulation (EC) Nº 453/2010)

Modifications related to the previous security card which concerns the ways of managing risks:
CLP Regulation (EC) nº 1272/2008:
· Precautionary statements

Texts of the legislative phrases mentioned in section 2:
H225: Highly flammable liquid and vapour
H336: May cause drowsiness or dizziness
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) 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.