JAYA- part A 3S-7400A

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

1.1 Product identifier: JAYA- part A

Base for road coating based on methacrylate resins (3 components)

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

Relevant uses: Paints and varnishes. For professional user/industrial user only.

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

1.3 Details of the supplier of the safety data sheet:

Rue du bon Puits - Bp 20102 - Saint Sylvain d'Aniou 49481 - VERRIERES en Anjou cedex - France Phone.:33- 02.41.21.14.17 - Fax: 33-02.41.21.14.13 <u>hse@ore-peinture.fr</u> - www.ore-peinture.fr

1.4 **Emergency telephone number:**

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.

Flam. Liq. 2: Flammable liquids, Category 2, H225 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317

22 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger





Hazard statements:

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

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction

Precautionary statements:

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

P233: Keep container tightly closed P264: Wash thoroughly after handling

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

P302+P352: IF ON SKIN: Wash with plenty of water

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

P403+P235: Store in a well-ventilated place. Keep cool

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

Supplementary information:

EUH208: Contains reaction mass of 2,2'-[(4-methylphenuyl)imino]bisethanol and Ethanol 2-[(2-(2-hydroxyethoxy)ethyl](4methylphenyl)amino]-. May produce an allergic reaction

Substances that contribute to the classification

Methyl methacrylate; n-butyl acrylate; 2,2'-ethylenedioxydiethyl dimethacrylate

Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.2 Mixture:

Chemical description: Mixture composed of additives, pigments and resins

Components:

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

| | Identification | Chemical name/Classification | | |
|--|----------------------|--|---|--|
| CAS: 80-62-6 | | Methyl methacrylate(| ATP CLP00 | |
| EC: 201-297-1 Index: 607-035-00-6 REACH: 01-2119452498-28-XXXX | Regulation 1272/2008 | Flam. Liq. 2: H225; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger | 5 - < 15 % | |
| CAS: 141-32-2 | | n-butyl acrylate(1) | ATP CLP00 | |
| EC: 205-480-7 Index: 607-062-00-3 REACH: 01-2119453155-43-XXXX | Regulation 1272/2008 | Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Warning | 5 - < 15 % | |
| CAS: | | | ethyl dimethacrylate(1) Self-classified | |
| EC: 203-652-6 Index: Non-applicable REACH: 01-2119969287-21-XXXX | Regulation 1272/2008 | Skin Sens. 1: H317 - Warning | 1 - < 2,5 % | |

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

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms 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, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

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

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

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

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

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

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SECTION 5: FIREFIGHTING MEASURES (continued)

5.3 Advice for firefighters:

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

Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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

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

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 °C

Maximum Temp.: 25 °C

Maximum time: 6 Months

B.- General conditions for storage

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SECTION 7: HANDLING AND STORAGE (continued)

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

7.3 Specific end use(s):

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

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

| Identification | Environmental limits |
|-----------------------------|--|
| Methyl methacrylate | IOELV (8h) 50 ppm |
| CAS: 80-62-6 EC: 201-297-1 | IOELV (STEL) 100 ppm |
| n-butyl acrylate | IOELV (8h) 2 ppm 11 mg/m³ |
| CAS: 141-32-2 EC: 205-480-7 | IOELV (STEL) 10 ppm 53 mg/m ³ |

DNEL (Workers):

| | | Short exposure | | Long exposure | |
|--|------------|----------------|----------------|------------------------|-----------------------|
| Identification | | Systemic | Local | Systemic | Local |
| Methyl methacrylate | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 80-62-6 | Dermal | Non-applicable | Non-applicable | 13,67 mg/kg | Non-applicable |
| EC: 201-297-1 | Inhalation | Non-applicable | Non-applicable | 208 mg/m ³ | 208 mg/m ³ |
| n-butyl acrylate | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 141-32-2 | Dermal | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| EC: 205-480-7 | Inhalation | Non-applicable | Non-applicable | Non-applicable | 11 mg/m³ |
| 2,2´-ethylenedioxydiethyl dimethacrylate | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 109-16-0 | Dermal | Non-applicable | Non-applicable | 13,9 mg/kg | Non-applicable |
| EC: 203-652-6 | Inhalation | Non-applicable | Non-applicable | 96,9 mg/m ³ | Non-applicable |

DNEL (General population):

| | | Short exposure | | Long exposure | |
|--|------------|----------------|----------------|------------------------|-----------------------|
| Identification | | Systemic | Local | Systemic | Local |
| Methyl methacrylate | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 80-62-6 | Dermal | Non-applicable | Non-applicable | 8,2 mg/kg | Non-applicable |
| EC: 201-297-1 | Inhalation | Non-applicable | Non-applicable | 74,3 mg/m ³ | 104 mg/m ³ |
| 2,2´-ethylenedioxydiethyl dimethacrylate | Oral | Non-applicable | Non-applicable | 8,33 mg/kg | Non-applicable |
| CAS: 109-16-0 | Dermal | Non-applicable | Non-applicable | 8,33 mg/kg | Non-applicable |
| EC: 203-652-6 | Inhalation | Non-applicable | Non-applicable | 28,9 mg/m ³ | Non-applicable |

PNEC:

| Identification | | | | |
|--|--------------|----------------|-------------------------|----------------|
| Methyl methacrylate | STP | 10 mg/L | Fresh water | 0,94 mg/L |
| CAS: 80-62-6 | Soil | 1,47 mg/kg | Marine water | 0,94 mg/L |
| EC: 201-297-1 | Intermittent | 0,94 mg/L | Sediment (Fresh water) | 5,74 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | Non-applicable |
| n-butyl acrylate | STP | 3,5 mg/L | Fresh water | 0,00272 mg/L |
| CAS: 141-32-2 | Soil | 1 mg/kg | Marine water | 0,00027 mg/L |
| EC: 205-480-7 | Intermittent | 0,011 mg/L | Sediment (Fresh water) | 0,0338 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,00338 mg/kg |
| 2,2´-ethylenedioxydiethyl dimethacrylate | STP | 10 mg/L | Fresh water | 0,164 mg/L |
| CAS: 109-16-0 | Soil | 0,274 mg/kg | Marine water | 0,0164 mg/L |
| EC: 203-652-6 | Intermittent | 0,164 mg/L | Sediment (Fresh water) | 1,85 mg/kg |
| | Oral | Non-applicable | Sediment (Marine water) | 0,185 mg/kg |

8.2 Exposure controls:

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

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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

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

B.- Respiratory protection

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

C.- Specific protection for the hands

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---------------------------|--|-----------|--------------|---|
| Mandatory hand protection | Protective gloves against minor risks | CATI | | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374. |

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

D.- Ocular and facial protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|---------------------------|---|-----------|---------------------------------|---|
| Mandatory face protection | Panoramic glasses against splash/projections. | CATII | EN 166:2001 EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|------------------------------------|---|-----------|--|---|
| Mandatory complete body protection | Antistatic and fireproof protective clothing | CAT III | EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2001 EN ISO 14116:2015 EN 1149-5:2008 | Limited protection against flames. |
| Mandatory foot protection | Safety footwear with antistatic and heat resistant properties | CAT III | EN 13287:2008 EN ISO 20345:2011 | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

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

Environmental exposure controls:

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

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

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Appearance:

Physical state at 20 °C:

Appearance:

Colour:

Not available

Odour:

Nodurishold:

Non-applicable *

Volatility:

Boiling point at atmospheric pressure: 100 °C

Vapour pressure at 20 °C: 2,5 kPa

Vapour pressure at 50 °C: 11,2 kPa

Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 1898,6 kg/m³

Relative density at 20 °C: 1,899

Dynamic viscosity at 20 °C:

Kinematic viscosity at 20 °C:

Non-applicable *

Non-applicable *

>20,5 cSt

Concentration: Non-applicable * pH: Non-applicable * Vapour density at 20 °C: Non-applicable * Partition coefficient n-octanol/water 20 °C: Non-applicable * Solubility in water at 20 °C: Non-applicable * Solubility properties: Non-applicable * Decomposition temperature: Non-applicable * Melting point/freezing point: Non-applicable * Explosive properties: Non-applicable * Oxidising properties: Non-applicable *

Flammability:

Flash Point: 21 °C

Flammability (solid, gas): Non-applicable *

Autoignition temperature: 292 °C

Lower flammability limit: Not available

Upper flammability limit: Not available

Explosive:

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

9.2 Other information:

Surface tension at 20 °C: Non-applicable *

Refraction index: Non-applicable *

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

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

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

10.2 Chemical stability:

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SECTION 10: STABILITY AND REACTIVITY (continued)

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

10.3 Possibility of hazardous reactions:

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

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

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

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (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 the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- 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.
 - IARC: Methyl methacrylate (3); n-butyl acrylate (3); N,N-dimethyl-p-toluidine (2B); Titanium dioxide (2B); Quartz (RCS < 1 %) (1)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

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

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

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

Other information:

Non-applicable

Specific toxicology information on the substances:

| Identification | Ac | ute toxicity | Genus |
|--|-----------------|-----------------|--------|
| Methyl methacrylate | LD50 oral | 5000 mg/kg | Rat |
| CAS: 80-62-6 | LD50 dermal | 5000 mg/kg | Rabbit |
| EC: 201-297-1 | LC50 inhalation | 29,8 mg/L (4 h) | Rat |
| n-butyl acrylate | LD50 oral | 4000 mg/kg | |
| CAS: 141-32-2 | LD50 dermal | Non-applicable | |
| EC: 205-480-7 | LC50 inhalation | Non-applicable | |
| 2,2´-ethylenedioxydiethyl dimethacrylate | LD50 oral | 10837 mg/kg | Rat |
| CAS: 109-16-0 | LD50 dermal | Non-applicable | |
| EC: 203-652-6 | LC50 inhalation | Non-applicable | |

Acute Toxicity Estimate (ATE mix):

| ATE mix | | Ingredient(s) of unknown toxicity | |
|------------|-------------------------------------|-----------------------------------|--|
| Oral | >2000 mg/kg (Calculation method) | Non-applicable | |
| Dermal | >2000 mg/kg (Calculation method) | Non-applicable | |
| Inhalation | >20 mg/L (4 h) (Calculation method) | Non-applicable | |

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

| Identification | | Acute toxicity | Species | Genus |
|--|------|------------------|---------------------------|------------|
| Methyl methacrylate | LC50 | 191 mg/L (96 h) | Lepomis macrochirus | Fish |
| CAS: 80-62-6 | EC50 | 69 mg/L (48 h) | Daphnia magna | Crustacean |
| EC: 201-297-1 | EC50 | 170 mg/L (96 h) | Selenastrum capricornutum | Algae |
| n-butyl acrylate | LC50 | 5.2 mg/L (96 h) | Salmo gairdneri | Fish |
| CAS: 141-32-2 | EC50 | 230 mg/L (24 h) | Daphnia magna | Crustacean |
| EC: 205-480-7 | EC50 | 5.5 mg/L (96 h) | Selenastrum capricornutum | Algae |
| 2,2´-ethylenedioxydiethyl dimethacrylate | LC50 | 16.4 mg/L (96 h) | Danio rerio | Fish |
| CAS: 109-16-0 | EC50 | Non-applicable | | |
| EC: 203-652-6 | EC50 | Non-applicable | | |

12.2 Persistence and degradability:

| Identification | Degradability | | Biodegradability | |
|--|---------------|----------------|------------------|----------|
| Methyl methacrylate | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 80-62-6 | COD | Non-applicable | Period | 14 days |
| EC: 201-297-1 | BOD5/COD | Non-applicable | % Biodegradable | 94,3 % |
| n-butyl acrylate | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 141-32-2 | COD | Non-applicable | Period | 14 days |
| EC: 205-480-7 | BOD5/COD | 0.56 | % Biodegradable | 61,3 % |
| 2,2´-ethylenedioxydiethyl dimethacrylate | BOD5 | Non-applicable | Concentration | 10 mg/L |
| CAS: 109-16-0 | COD | Non-applicable | Period | 28 days |
| EC: 203-652-6 | BOD5/COD | Non-applicable | % Biodegradable | 85 % |

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.3 Bioaccumulative potential:

| Identification | Bioaccu | Bioaccumulation potential | | |
|---------------------|-----------|---------------------------|--|--|
| Methyl methacrylate | BCF | 7 | | |
| CAS: 80-62-6 | Pow Log | 1.38 | | |
| EC: 201-297-1 | Potential | Low | | |
| n-butyl acrylate | BCF | 37 | | |
| CAS: 141-32-2 | Pow Log | 2.36 | | |
| EC: 205-480-7 | Potential | Moderate | | |

12.4 Mobility in soil:

| Identification | Identification Absorption/desorption | | Volatility | |
|--|--------------------------------------|----------------------|------------|-------------------|
| Methyl methacrylate | Koc | Non-applicable | Henry | Non-applicable |
| CAS: 80-62-6 | Conclusion | Non-applicable | Dry soil | Non-applicable |
| EC: 201-297-1 | Surface tension | 2,551E-2 N/m (25 °C) | Moist soil | Non-applicable |
| n-butyl acrylate | Koc | Non-applicable | Henry | Non-applicable |
| CAS: 141-32-2 | Conclusion | Non-applicable | Dry soil | Non-applicable |
| EC: 205-480-7 | Surface tension | 2,598E-2 N/m (25 °C) | Moist soil | Non-applicable |
| 2,2´-ethylenedioxydiethyl dimethacrylate | Koc | 78 | Henry | 9,26E-6 Pa·m³/mol |
| CAS: 109-16-0 | Conclusion | High | Dry soil | No |
| EC: 203-652-6 | Surface tension | Non-applicable | Moist soil | No |

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances | Dangerous |

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

HP3 Flammable, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

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

Regulations related to waste management:

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

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

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

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SECTION 14: TRANSPORT INFORMATION (continued)



 14.1
 UN number:
 UN1263

 14.2
 UN proper shipping name:
 PAINT

 14.3
 Transport hazard class(es):
 3

 Labels:
 3

 14.4
 Packing group:
 II

14.4 Packing group: II
14.5 Environmental hazards: No
14.6 Special precautions for user

Special regulations: 163, 367, 640D, 650

Tunnel restriction code: D/E

Physico-Chemical properties: see section 9

Limited quantities: 5

14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the

IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 38-16:



 14.1
 UN number:
 UN1263

 14.2
 UN proper shipping name:
 PAINT

 14.3
 Transport hazard class(es):
 3

 Labels:
 3

 14.4
 Packing group:
 II

 14.5
 Environmental hazards:
 No

14.6 Special precautions for user

Special regulations: 367, 163

EmS Codes: F-E, S-E

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Non-applicable

14.7 Transport in bulk according to Non-applicable
Annex II of Marpol and the

Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:



14.1 UN number: UN1263
 14.2 UN proper shipping name: PAINT
 14.3 Transport hazard class(es): 3

 Labels: 3

 14.4 Packing group: II
 14.5 Environmental hazards: No
 14.6 Special precautions for user

Physico-Chemical properties: see section 9

14.7 Transport in bulk according to Non-applicable Annex II of Marpol and the

IBC Code:

IBC Code:

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) No 1907/2006 (REACH): Non-applicable

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

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

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

Seveso III:

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SECTION 15: REGULATORY INFORMATION (continued)

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

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

Shall not be used in:

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

Specific provisions in terms of protecting people or the environment:

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

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

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

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

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H225: Highly flammable liquid and vapour

Texts of the legislative phrases mentioned in section 3:

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

CLP Regulation (EC) No 1272/2008:

Eye Irrit. 2: H319 - Causes serious eye irritation

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

Flam. Liq. 3: H226 - Flammable liquid and vapour

Skin Irrit. 2: H315 - Causes skin irritation

Skin Sens. 1: H317 - May cause an allergic skin reaction

STOT SE 3: H335 - May cause respiratory irritation

Classification procedure:

Skin Irrit. 2: Calculation method

Skin Sens. 1: Calculation method

Flam. Liq. 2: Calculation method (2.6.4.3)

Advice related to training:

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

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:

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SECTION 16: OTHER INFORMATION (continued)

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

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

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

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