


S05 - FLUORESCENT PAINT**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** S05 - FLUORESCENT PAINT
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Paint
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:**
Industrias Titán, S.A.U.
Pol. Ind. Pratense, calle 114 nº 17-19
08820 El Prat de Llobregat - Barcelona - España
Phone.: +34 934 797 494 - Fax: +34 934 797 495
msds@titanlux.es
<http://www.titanlux.es>
- 1.4 Emergency telephone number:** +34 934 797 494 (7:30-14:30 h.) (working hours)

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.
Aerosol 1: Pressurised container: May burst if heated., H229
Aerosol 1: Flammable aerosols, Category 1, H222
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
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:**
Aerosol 1: H229 - Pressurised container: May burst if heated
Aerosol 1: H222 - Extremely flammable aerosol
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
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
P211: Do not spray on an open flame or other ignition source
P251: Do not pierce or burn, even after use
P260: Do not breathe spray
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment
- Supplementary information:**
EUH066: Repeated exposure may cause skin dryness or cracking
EUH208: Contains n-butyl methacrylate. May produce an allergic reaction
- Substances that contribute to the classification**
Hydrocarbons, C7-C9,n-alkanes, iso-alkanes, cyclics; Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane; cyclohexane
- Additional labeling:**
Buildup of explosive mixtures possible without sufficient ventilation.
- 2.3 Other hazards:**

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Product fails to meet PBT/vPvB criteria

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:








Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of additives, aggregates, pigments and resins in solvents

Components:

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

Identification	Chemical name/Classification	Concentration
CAS: 115-10-6 EC: 204-065-8 Index: 603-019-00-8 REACH: 01-2119472128-37-XXXX	dimethyl ether⁽¹⁾ Regulation 1272/2008 Flam. Gas 1A: H220; Press. Gas: H280 - Danger	ATP CLP00  25 - <50 %
CAS: Non-applicable EC: 920-750-0 Index: Non-applicable REACH: 01-2119473851-33-XXXX	Hydrocarbons, C7-C9,n-alkanes, iso-alkanes, cyclics⁽²⁾ Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	Self-classified  20 - <25 %
CAS: 92128-66-0 EC: 926-605-8 Index: Non-applicable REACH: 01-2119486291-36-XXXX	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane⁽²⁾ Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	Self-classified  2 - <2,5 %
CAS: 110-82-7 EC: 203-806-2 Index: 601-017-00-1 REACH: 01-2119463273-41-XXXX	cyclohexane⁽²⁾ Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger	ATP CLP00  2 - <2,5 %
CAS: 71-41-0 EC: 200-752-1 Index: 603-200-00-1 REACH: 01-2119491284-34-XXXX	Pentan-1-ol⁽²⁾ Regulation 1272/2008 Acute Tox. 4: H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	ATP ATP01  2 - <2,5 %
CAS: 110-54-3 EC: 203-777-6 Index: 601-037-00-0 REACH: 01-2119480412-44-XXXX	n-hexane⁽²⁾ Regulation 1272/2008 Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361f; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger	ATP CLP00  0,4 - <0,5 %
CAS: 97-88-1 EC: 202-615-1 Index: 607-033-00-5 REACH: 01-2119486394-28-XXXX	n-butyl methacrylate⁽²⁾ Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	ATP CLP00  0,2 - <0,3 %

⁽¹⁾ Substance with a Union workplace exposure limit

⁽²⁾ 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 11, 12 and 16.

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

SECTION 4: FIRST AID MEASURES (continued)

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.

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:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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.

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. 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

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

- Minimum Temp.: 5 °C
- Maximum Temp.: 40 °C
- Maximum time: 36 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 workplace

Identification		Occupational exposure limits		
dimethyl ether CAS: 115-10-6 EC: 204-065-8	IOELV (8h)	1000 ppm	1920 mg/m ³	
	IOELV (STEL)			
cyclohexane CAS: 110-82-7 EC: 203-806-2	IOELV (8h)	200 ppm	700 mg/m ³	
	IOELV (STEL)			
n-hexane CAS: 110-54-3 EC: 203-777-6	IOELV (8h)	20 ppm	72 mg/m ³	
	IOELV (STEL)			

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
dimethyl ether CAS: 115-10-6 EC: 204-065-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1894 mg/m ³	Non-applicable
Hydrocarbons, C7-C9,n-alkanes, iso-alkanes, cyclics CAS: Non-applicable EC: 920-750-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	773 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2035 mg/m ³	Non-applicable
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane CAS: 92128-66-0 EC: 926-605-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	13964 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5306 mg/m ³	Non-applicable

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
cyclohexane CAS: 110-82-7 EC: 203-806-2	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2016 mg/kg	Non-applicable
	Inhalation	1400 mg/m ³	1400 mg/m ³	700 mg/m ³	700 mg/m ³
Pentan-1-ol CAS: 71-41-0 EC: 200-752-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	292 mg/m ³	Non-applicable	73,16 mg/m ³
n-hexane CAS: 110-54-3 EC: 203-777-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	75 mg/m ³	Non-applicable
n-butyl methacrylate CAS: 97-88-1 EC: 202-615-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	415,9 mg/m ³	409 mg/m ³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
dimethyl ether CAS: 115-10-6 EC: 204-065-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	471 mg/m ³	Non-applicable
Hydrocarbons, C7-C9,n-alkanes, iso-alkanes, cyclics CAS: Non-applicable EC: 920-750-0	Oral	Non-applicable	Non-applicable	699 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	699 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	608 mg/m ³	Non-applicable
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane CAS: 92128-66-0 EC: 926-605-8	Oral	Non-applicable	Non-applicable	1301 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1377 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1131 mg/m ³	Non-applicable
cyclohexane CAS: 110-82-7 EC: 203-806-2	Oral	Non-applicable	Non-applicable	59,4 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1186 mg/kg	Non-applicable
	Inhalation	412 mg/m ³	412 mg/m ³	206 mg/m ³	206 mg/m ³
Pentan-1-ol CAS: 71-41-0 EC: 200-752-1	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	218 mg/m ³	Non-applicable	13 mg/m ³
n-hexane CAS: 110-54-3 EC: 203-777-6	Oral	Non-applicable	Non-applicable	4 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	5,3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	16 mg/m ³	Non-applicable
n-butyl methacrylate CAS: 97-88-1 EC: 202-615-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	3 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	66,5 mg/m ³	366,4 mg/m ³

PNEC:

Identification				
dimethyl ether CAS: 115-10-6 EC: 204-065-8	STP	160 mg/L	Fresh water	0,155 mg/L
	Soil	0,045 mg/kg	Marine water	0,016 mg/L
	Intermittent	1,549 mg/L	Sediment (Fresh water)	0,681 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,069 mg/kg
cyclohexane CAS: 110-82-7 EC: 203-806-2	STP	3,24 mg/L	Fresh water	0,207 mg/L
	Soil	3,38 mg/kg	Marine water	0,207 mg/L
	Intermittent	0,207 mg/L	Sediment (Fresh water)	16,68 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	16,68 mg/kg
n-butyl methacrylate CAS: 97-88-1 EC: 202-615-1	STP	31,7 mg/L	Fresh water	0,017 mg/L
	Soil	0,935 mg/kg	Marine water	0,002 mg/L
	Intermittent	0,056 mg/L	Sediment (Fresh water)	4,73 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,473 mg/kg

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)



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 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, vapours and particles		EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected.

C.- Specific protection for the hands





Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves		EN ISO 374-1:2016 EN 16523-1:2015 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.

"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	Face shield		EN 166:2001 EN 167:2001 EN 168:2001 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	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer 's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN ISO 13287:2012 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 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

Volatile organic compounds:

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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 °C:	641,9 kg/m ³ (641,9 g/L)
Average carbon number:	7,43
Average molecular weight:	102,9 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Aerosol
Appearance:	Not available
Colour:	Not available
Odour:	Not available
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	-25 °C (Propellant)
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	<300000 Pa (300 kPa)
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	Non-applicable *
Relative density at 20 °C:	Non-applicable *
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
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 *
Recipient pressure:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

Flammability:

Flash Point:	-41 °C (Propellant)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	240 °C (Propellant)
Lower flammability limit:	1,5 % Volume
Upper flammability limit:	18,6 % Volume

Explosive:

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

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

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:

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
Not applicable	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

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

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

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains 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):

** Changes with regards to the previous version

S05 - FLUORESCENT PAINT

SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: 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: Non-applicable
 - 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. However, it does contain substances classified as dangerous for this effect. For more information see section 3.
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
 - Cutaneous: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- F- Specific target organ toxicity (STOT) - single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous due to repetitive exposure. 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. However, it does 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
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane CAS: 92128-66-0 EC: 926-605-8	LD50 oral	16750 mg/kg	Rat
	LD50 dermal	3350 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Pentan-1-ol CAS: 71-41-0 EC: 200-752-1	LD50 oral	3645 mg/kg	
	LD50 dermal	2290 mg/kg (ATEi)	
	LC50 inhalation	11 mg/L (4 h) (ATEi)	
cyclohexane CAS: 110-82-7 EC: 203-806-2	LD50 oral	5100 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
dimethyl ether CAS: 115-10-6 EC: 204-065-8	LD50 oral	Non-applicable	
	LD50 dermal	Non-applicable	
	LC50 inhalation	308,5 mg/L (4 h)	Rat
n-hexane CAS: 110-54-3 EC: 203-777-6	LD50 oral	5100 mg/kg	Mouse
	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

SECTION 12: ECOLOGICAL INFORMATION ** (continued)

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

12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
Hydrocarbons, C7-C9,n-alkanes, iso-alkanes, cyclics CAS: Non-applicable EC: 920-750-0	LC50	1 - 10 mg/L (96 h)		Fish
	EC50	1 - 10 mg/L		Crustacean
	EC50	1 - 10 mg/L		Algae
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane CAS: 92128-66-0 EC: 926-605-8	LC50	9.8 mg/L (96 h)	QSAR	Fish
	EC50	17.1 mg/L (48 h)	QSAR	Fish
	EC50	26 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
cyclohexane CAS: 110-82-7 EC: 203-806-2	LC50	0.1 - 1 mg/L (96 h)		Fish
	EC50	0.1 - 1 mg/L		Crustacean
	EC50	0.1 - 1 mg/L		Algae
n-hexane CAS: 110-54-3 EC: 203-777-6	LC50	4 mg/L (96 h)	Carassius auratus	Fish
	EC50	Non-applicable		
	EC50	Non-applicable		
n-butyl methacrylate CAS: 97-88-1 EC: 202-615-1	LC50	11 mg/L (96 h)	Pimephales promelas	Fish
	EC50	32 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	57 mg/L (96 h)	Pseudokirchneriella subcapitata	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Hydrocarbons, C7-C9,n-alkanes, iso-alkanes, cyclics CAS: Non-applicable EC: 920-750-0	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	98 %
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane CAS: 92128-66-0 EC: 926-605-8	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %
cyclohexane CAS: 110-82-7 EC: 203-806-2	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	0 %
n-hexane CAS: 110-54-3 EC: 203-777-6	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %
n-butyl methacrylate CAS: 97-88-1 EC: 202-615-1	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	88 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
cyclohexane CAS: 110-82-7 EC: 203-806-2	BCF	66
	Pow Log	3.44
	Potential	Moderate
n-hexane CAS: 110-54-3 EC: 203-777-6	BCF	542
	Pow Log	3.9
	Potential	High
n-butyl methacrylate CAS: 97-88-1 EC: 202-615-1	BCF	91
	Pow Log	2.88
	Potential	Moderate

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
dimethyl ether CAS: 115-10-6 EC: 204-065-8	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	1,136E-2 N/m (25 °C)	Moist soil	Non-applicable

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Absorption/desorption		Volatility	
	Koc	Non-applicable	Henry	Non-applicable
cyclohexane CAS: 110-82-7 EC: 203-806-2	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2,465E-2 N/m (25 °C)	Moist soil	Non-applicable
	Koc	Non-applicable	Henry	Non-applicable
Pentan-1-ol CAS: 71-41-0 EC: 200-752-1	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2,646E-2 N/m (25 °C)	Moist soil	Non-applicable
	Koc	150	Henry	185425 Pa·m ³ /mol
n-hexane CAS: 110-54-3 EC: 203-777-6	Conclusion	High	Dry soil	Yes
	Surface tension	1,798E-2 N/m (25 °C)	Moist soil	Yes
	Koc	Non-applicable	Henry	Non-applicable
n-butyl methacrylate CAS: 97-88-1 EC: 202-615-1	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2,559E-2 N/m (25 °C)	Moist soil	Non-applicable
	Koc	Non-applicable	Henry	Non-applicable

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 05 04*	gases in pressure containers (including halons) containing hazardous substances	Dangerous

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

HP14 Ecotoxic, HP3 Flammable, 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) 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:

S05 - FLUORESCENT PAINT

SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number:** UN1950
14.2 UN proper shipping name: AEROSOLS, flammable
14.3 Transport hazard class(es): 2
 Labels: 2.1
14.4 Packing group: N/A
14.5 Environmental hazards: Yes
14.6 Special precautions for user
 Special regulations: 190, 327, 344, 625
 Tunnel restriction code: D
 Physico-Chemical properties: see section 9
 Limited quantities: 1 L
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 39-18:



- 14.1 UN number:** UN1950
14.2 UN proper shipping name: AEROSOLS, flammable
14.3 Transport hazard class(es): 2
 Labels: 2.1
14.4 Packing group: N/A
14.5 Environmental hazards: Yes
14.6 Special precautions for user
 Special regulations: 63, 959, 190, 277, 327, 344
 EmS Codes: F-D, S-U
 Physico-Chemical properties: see section 9
 Limited quantities: 1 L
 Segregation group: Non-applicable
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2020:



- 14.1 UN number:** UN1950
14.2 UN proper shipping name: AEROSOLS, flammable
14.3 Transport hazard class(es): 2
 Labels: 2.1
14.4 Packing group: N/A
14.5 Environmental hazards: Yes
14.6 Special precautions for user
 Physico-Chemical properties: see section 9
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 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

- CONTINUED ON NEXT PAGE -

S05 - FLUORESCENT PAINT

SECTION 15: REGULATORY INFORMATION (continued)

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P3a	FLAMMABLE AEROSOLS	150	500
E2	ENVIRONMENTAL HAZARDS	200	500

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.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
 - Hydrocarbons, C7-C9,n-alkanes, iso-alkanes, cyclics
 - Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane (92128-66-0)
 - cyclohexane (110-82-7)
 - Pentan-1-ol (71-41-0)
 - n-hexane (110-54-3)
 - n-butyl methacrylate (97-88-1)
- Removed substances
 - Naphtha (petroleum), hydrotreated light, < 0.1 % EC 200-753-7 (64742-49-0)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Hazard statements
- Precautionary statements
- Supplementary information

Texts of the legislative phrases mentioned in section 2:

- H336: May cause drowsiness or dizziness
- H411: Toxic to aquatic life with long lasting effects
- H229: Pressurised container: May burst if heated
- H222: Extremely flammable aerosol

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:

** Changes with regards to the previous version

S05 - FLUORESCENT PAINT**SECTION 16: OTHER INFORMATION ** (continued)**

Acute Tox. 4: H332 - Harmful if inhaled
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Gas 1A: H220 - Extremely flammable gas
Flam. Liq. 2: H225 - Highly flammable liquid and vapour
Flam. Liq. 3: H226 - Flammable liquid and vapour
Press. Gas: H280 - Contains gas under pressure, may explode if heated
Repr. 2: H361f - Suspected of damaging fertility.
Skin Irrit. 2: H315 - Causes skin irritation
Skin Sens. 1: H317 - May cause an allergic skin reaction
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure
STOT SE 3: H335 - May cause respiratory irritation
STOT SE 3: H336 - May cause drowsiness or dizziness

Classification procedure:

STOT SE 3: Calculation method
Aquatic Chronic 2: Calculation method
Aerosol 1: Calculation method
Aerosol 1: Calculation method

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:

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

*** Changes with regards to the previous version*

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

- END OF SAFETY DATA SHEET -