Safety data sheet



This SDS is an English translation of Regulation (EU) nº 2015/830, without any country-specific legislation

077 - URETHANE-BASED ENAMEL Colours: 4100, 4101, 4103, 4105, 4121, 4123

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

1.1 Product identifier:

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Other means of identification:

Non-applicable

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

Relevant uses: Enamel

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.

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412 Flam. Liq. 3: Flammable liquids, Category 3, H226 STOT RE 2: Specific target organ toxicity by inhalation, repeated exposure, Category 2, H373

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Flam. Liq. 3: H226 - Flammable liquid and vapour. STOT RF 2: H373 - May cause damage to organs through prolonged or repeated exposu

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Inhalation). 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.

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

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container according to the separated collection system used in your municipality.

Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking.

EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Substances that contribute to the classification

Hydrocarbons, C9, aromatics; Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

UFI: P3C0-60A4-Y00X-5VQV

** Changes with regards to the previous version

TITAN

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

2.3 Other hazards:

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:	64742-95-6	Hydrocarbons, C9, a	romatics ⁽¹⁾	Self-classified	
	918-668-5 Non-applicable 01-2119455851-35- XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; STOT SE 3: H336; EUH066 - Danger		10 - <12,5 %
CAS:	64742-48-9	Hydrocarbons, C9-C1	11,n-alkanes, iso-alkanes, cyclics, <2% aromatics ⁽¹⁾	Self-classified	
	919-857-5 Non-applicable : 01-2119463258-33- XXXX Regulation 1272/2008		Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Danger	() () ()	10 - <12,5 %
CAS:	64742-82-1	Hydrocarbons, C9-C1	12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ⁽¹⁾	Self-classified	
	919-446-0 Non-applicable 01-2119458049-33- XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT RE 1: H372; STOT SE 3: H336; EUH066 - Danger		5 - <7,5 %
CAS:	107-98-2	1-methoxy-2-propan	10 ⁽²⁾	ATP ATP01	
	203-539-1 603-064-00-3 01-2119457435-35- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336 - Warning	() ()	0,5 - <0,75 %
CAS: 34590-94-8		Dipropylene Glycol M	lethyl Ether ⁽²⁾	Not classified	
	252-104-2 Non-applicable 01-2119450011-60- XXXX	Regulation 1272/2008			0,05 - <0,1 %
CAS:	108-65-6	2-methoxy-1-methy	ethyl acetate ⁽²⁾	Self-classified	
	203-603-9 607-195-00-7 01-2119475791-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336 - Warning	() ()	<0,01 %
CAS:	108-65-6	2-methoxy-1-methy	ethyl acetate ⁽²⁾	ATP ATP01	
	203-603-9 607-195-00-7 01-2119475791-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226 - Warning	٨	<0,01 %
CAS:	123-86-4	N-butyl acetate ⁽²⁾		ATP CLP00	
	204-658-1 607-025-00-1 01-2119485493-29- XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	(1)	<0,01 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830 ⁽²⁾ Substance with a Union workplace exposure limit

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:**



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SECTION 4: FIRST AID MEASURES (continued)

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

By skin contact:

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:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

Unsuitable extinguishing media:

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:

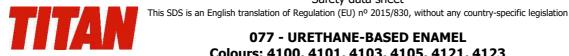
Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air 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:



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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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

Precautions for safe handling: 7.1

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 2014/34/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

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 (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupa	ational exposure lir	nits
1-methoxy-2-propanol	IOELV (8h)	100 ppm	375 mg/m ³
CAS: 107-98-2 EC: 203-539-1	IOELV (STEL)	150 ppm	568 mg/m ³
Dipropylene Glycol Methyl Ether	IOELV (8h)	50 ppm	308 mg/m ³
CAS: 34590-94-8 EC: 252-104-2	IOELV (STEL)		
2-methoxy-1-methylethyl acetate	IOELV (8h)	50 ppm	275 mg/m ³
CAS: 108-65-6 EC: 203-603-9	IOELV (STEL)	100 ppm	550 mg/m ³
2-methoxy-1-methylethyl acetate	IOELV (8h)	50 ppm	275 mg/m ³
CAS: 108-65-6 EC: 203-603-9	IOELV (STEL)	100 ppm	550 mg/m ³
N-butyl acetate	IOELV (8h)	50 ppm	241 mg/m ³
CAS: 123-86-4 EC: 204-658-1	IOELV (STEL)	150 ppm	723 mg/m ³



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

DNEL (Workers):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Hydrocarbons, C9, aromatics	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64742-95-6	Dermal	Non-applicable	Non-applicable	25 mg/kg	Non-applicable
EC: 918-668-5	Inhalation	Non-applicable	Non-applicable	150 mg/m ³	Non-applicable
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 64742-82-1	Dermal	Non-applicable	Non-applicable	21 mg/kg	Non-applicable
EC: 919-446-0	Inhalation	570 mg/m ³	Non-applicable	330 mg/m ³	Non-applicable
1-methoxy-2-propanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 107-98-2	Dermal	Non-applicable	Non-applicable	183 mg/kg	Non-applicable
EC: 203-539-1	Inhalation	553,5 mg/m ³	553,5 mg/m ³	369 mg/m ³	Non-applicable
Dipropylene Glycol Methyl Ether	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 34590-94-8	Dermal	Non-applicable	Non-applicable	283 mg/kg	Non-applicable
EC: 252-104-2	Inhalation	Non-applicable	Non-applicable	308 mg/m ³	Non-applicable
2-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	796 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	550 mg/m ³	275 mg/m ³	Non-applicable
2-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	796 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	550 mg/m ³	275 mg/m ³	Non-applicable
N-butyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 123-86-4	Dermal	11 mg/kg	Non-applicable	11 mg/kg	Non-applicable
EC: 204-658-1	Inhalation	600 mg/m ³	600 mg/m ³	300 mg/m ³	300 mg/m ³

DNEL (General population):

Identification iydrocarbons, C9, aromatics AS: 64742-95-6		Systemic	Land		
		oyocenne	Local	Systemic	Local
AC. 64742 OF 6	Oral	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
AS: 04/42-93-0	Dermal	Non-applicable	Non-applicable	11 mg/kg	Non-applicable
C: 918-668-5	Inhalation	Non-applicable	Non-applicable	32 mg/m ³	Non-applicable
lydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, romatics (2-25%)	Oral	Non-applicable	Non-applicable	21 mg/kg	Non-applicable
AS: 64742-82-1	Dermal	Non-applicable	Non-applicable	12 mg/kg	Non-applicable
C: 919-446-0	Inhalation	570 mg/m ³	Non-applicable	71 mg/m ³	Non-applicable
-methoxy-2-propanol	Oral	Non-applicable	Non-applicable	33 mg/kg	Non-applicable
AS: 107-98-2	Dermal	Non-applicable	Non-applicable	78 mg/kg	Non-applicable
C: 203-539-1	Inhalation	Non-applicable	Non-applicable	43,9 mg/m ³	Non-applicable
ipropylene Glycol Methyl Ether	Oral	Non-applicable	Non-applicable	36 mg/kg	Non-applicable
AS: 34590-94-8	Dermal	Non-applicable	Non-applicable	121 mg/kg	Non-applicable
C: 252-104-2	Inhalation	Non-applicable	Non-applicable	37,2 mg/m ³	Non-applicable
-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	36 mg/kg	Non-applicable
AS: 108-65-6	Dermal	Non-applicable	Non-applicable	320 mg/kg	Non-applicable
C: 203-603-9	Inhalation	Non-applicable	Non-applicable	33 mg/m ³	33 mg/m ³
-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	36 mg/kg	Non-applicable
AS: 108-65-6	Dermal	Non-applicable	Non-applicable	320 mg/kg	Non-applicable
C: 203-603-9	Inhalation	Non-applicable	Non-applicable	33 mg/m ³	33 mg/m ³
-butyl acetate	Oral	2 mg/kg	Non-applicable	2 mg/kg	Non-applicable
AS: 123-86-4	Dermal	6 mg/kg	Non-applicable	6 mg/kg	Non-applicable
C: 204-658-1	Inhalation	300 mg/m ³	300 mg/m ³	35,7 mg/m ³	35,7 mg/m ³

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
	075	100 //		10 11
1-methoxy-2-propanol	STP	100 mg/L	Fresh water	10 mg/L
CAS: 107-98-2	Soil	4,59 mg/kg	Marine water	1 mg/L
EC: 203-539-1	Intermittent	100 mg/L	Sediment (Fresh water)	52,3 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	5,2 mg/kg
Dipropylene Glycol Methyl Ether	STP	4168 mg/L	Fresh water	19 mg/L
CAS: 34590-94-8	Soil	2,74 mg/kg	Marine water	1,9 mg/L
EC: 252-104-2	Intermittent	190 mg/L	Sediment (Fresh water)	70,2 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	7,02 mg/kg
2-methoxy-1-methylethyl acetate	STP	100 mg/L	Fresh water	0,635 mg/L
CAS: 108-65-6	Soil	0,29 mg/kg	Marine water	0,064 mg/L
EC: 203-603-9	Intermittent	6,35 mg/L	Sediment (Fresh water)	3,29 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,329 mg/kg
2-methoxy-1-methylethyl acetate	STP	100 mg/L	Fresh water	0,635 mg/L
CAS: 108-65-6	Soil	0,29 mg/kg	Marine water	0,064 mg/L
EC: 203-603-9	Intermittent	6,35 mg/L	Sediment (Fresh water)	3,29 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,329 mg/kg
N-butyl acetate	STP	35,6 mg/L	Fresh water	0,18 mg/L
CAS: 123-86-4	Soil	0,09 mg/kg	Marine water	0,018 mg/L
EC: 204-658-1	Intermittent	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,098 mg/kg

8.2 Exposure controls:

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

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

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

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases, vapours and particles	CATIN	EN 149:2001+A1:2009 EN 405:2002+A1:2010	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.
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C.- Specific protection for the hands

	Pictogram	PPE	Labelling	CEN Standard	Remarks
M	andatory hand protection	NON-disposable chemical protective gloves		EN ISO 374-1:2016+A1:2018 EN 16523-1:2015+A1:2018 EN 420:2004+A1:2010	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 calculated 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	CATI	EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
Body protection	1	1	1	



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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 13287:2013 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
	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011		DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

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):	30,86 % weight
V.O.C. density at 20 °C:	388,11 kg/m³ (388,11 g/L)
Average carbon number:	9,27
Average molecular weight:	128,54 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearances					
Physical state at 20 °C:	Liquid				
Appearance:	Viscous				
Colour:	According to the markings on the package				
Odour:	Not available				
Odour threshold:	Non-applicable *				
Volatility:					
Boiling point at atmospheric pressure:	163 °C				
Vapour pressure at 20 °C:	233 Pa				
Vapour pressure at 50 °C:	1651,51 Pa (1,65 kPa)				
Evaporation rate at 20 °C:	Non-applicable *				
Product description:					
Density at 20 °C:	950 - 1250 kg/m³				
Relative density at 20 °C:	0,95 - 1,25				
Dynamic viscosity at 20 °C:	Non-applicable *				
Kinematic viscosity at 20 °C:	Non-applicable *				
Kinematic viscosity at 40 °C:	>20,5 cSt				
*Not relevant due to the nature of the product, not providing information property of its hazards.					
	Physical state at 20 °C: Appearance: Colour: Odour : Odour threshold: Volatility: Boiling point at atmospheric pressure: Vapour pressure at 20 °C: Vapour pressure at 20 °C: Evaporation rate at 20 °C: Evaporation rate at 20 °C: Product description: Density at 20 °C: Relative density at 20 °C: Kinematic viscosity at 20 °C: Kinematic viscosity at 40 °C:				

Revised: 20/12/2021

Version: 5 (Replaced 4)

Appearance:

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SECTION 9: PHYSICAL AND CHEMICAL PROPER	TIES (continued)
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:	
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:	42 °C
Heat of combustion:	Non-applicable *
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	230 °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	g 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			
1	Incompatible materials:							

10.5 Incompatible materials:

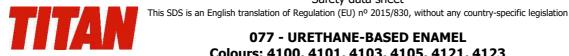
Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

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 **

** Changes with regards to the previous version



SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

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, as it does not 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, 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: 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: 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.
- 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: Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics (3); Hydrocarbons, C9, aromatics (3); Solvent naphtha (petroleum), light arom., < 0.1 % EC 200-753-7 (3); naphtha (petroleum), hydrodesulphurized heavy , < 0.1 % EC 200-753-7 (3); Reaction mass of ethylbenzene and xylene (3); Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (3); Titanium dioxide (2B); 2,6-di-tert-butyl-p-cresol (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 sensitising 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) - 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: 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.

- 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:

** Changes with regards to the previous version



SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Identification	A	cute toxicity	Genus
Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics	LD50 oral	5100 mg/kg	Rat
CAS: 64742-48-9	LD50 dermal	Non-applicable	
EC: 919-857-5	LC50 inhalation	Non-applicable	
2-methoxy-1-methylethyl acetate	LD50 oral	8532 mg/kg	Rat
CAS: 108-65-6	LD50 dermal	5100 mg/kg	Rat
EC: 203-603-9	LC50 inhalation	30 mg/L (4 h)	Rat
2-methoxy-1-methylethyl acetate	LD50 oral	8532 mg/kg	Rat
CAS: 108-65-6	LD50 dermal	5100 mg/kg	Rat
EC: 203-603-9	LC50 inhalation	30 mg/L (4 h)	Rat
N-butyl acetate	LD50 oral	12789 mg/kg	Rat
CAS: 123-86-4	LD50 dermal	14112 mg/kg	Rabbit
EC: 204-658-1	LC50 inhalation	23,4 mg/L (4 h)	Rat

** Changes with regards to the previous version

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
Hydrocarbons, C9, aromatics	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 64742-95-6	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 918-668-5	EC50	>1 - 10 mg/L (72 h)		Algae
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 64742-82-1	EC50	>1 - 10 mg/L (48 h)		Crustacear
EC: 919-446-0	EC50	>1 - 10 mg/L (72 h)		Algae
1-methoxy-2-propanol	LC50	20800 mg/L (96 h)	Pimephales promelas	Fish
CAS: 107-98-2	EC50	23300 mg/L (48 h)	Daphnia magna	Crustacear
EC: 203-539-1	EC50	1000 mg/L (168 h)	Selenastrum capricornutum	Algae
Dipropylene Glycol Methyl Ether	LC50	10000 mg/L (96 h)	Pimephales promelas	Fish
CAS: 34590-94-8	EC50	1919 mg/L (48 h)	Daphnia magna	Crustacear
EC: 252-104-2	EC50	Non-applicable		
2-methoxy-1-methylethyl acetate	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
CAS: 108-65-6	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacear
EC: 203-603-9	EC50	Non-applicable		
2-methoxy-1-methylethyl acetate	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
CAS: 108-65-6	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacear
EC: 203-603-9	EC50	Non-applicable		
N-butyl acetate	LC50	Non-applicable		
CAS: 123-86-4	EC50	Non-applicable		
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradab	ility
Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, $<\!2\%$ aromatics	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 64742-48-9	COD	Non-applicable	Period	28 days
EC: 919-857-5	BOD5/COD	Non-applicable	% Biodegradable	80 %
1-methoxy-2-propanol	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 107-98-2	COD	Non-applicable	Period	28 days
EC: 203-539-1	BOD5/COD	Non-applicable	% Biodegradable	90 %

** Changes with regards to the previous version

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Colours: 4100, 4101, 4103, 4105, 4121, 4123

SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Deg	radability	Biodegra	idability
Dipropylene Glycol Methyl Ether	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 34590-94-8	COD	0 g O2/g	Period	28 days
EC: 252-104-2	BOD5/COD	Non-applicable	% Biodegradable	73 %
2-methoxy-1-methylethyl acetate	BOD5	Non-applicable	Concentration	785 mg/L
CAS: 108-65-6	COD	Non-applicable	Period	8 days
EC: 203-603-9	BOD5/COD	Non-applicable	% Biodegradable	100 %
2-methoxy-1-methylethyl acetate	BOD5	Non-applicable	Concentration	785 mg/L
CAS: 108-65-6	COD	Non-applicable	Period	8 days
EC: 203-603-9	BOD5/COD	Non-applicable	% Biodegradable	100 %
N-butyl acetate	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 123-86-4	COD	Non-applicable	Period	5 days
EC: 204-658-1	BOD5/COD	Non-applicable	% Biodegradable	84 %

12.3 Bioaccumulative potential:

Identification	Bioacc	Bioaccumulation potential		
1-methoxy-2-propanol	BCF	3		
CAS: 107-98-2	Pow Log	-0.44		
EC: 203-539-1	Potential	Low		
Dipropylene Glycol Methyl Ether	BCF	1		
CAS: 34590-94-8	Pow Log	-0.06		
EC: 252-104-2	Potential	Low		
2-methoxy-1-methylethyl acetate	BCF	1		
CAS: 108-65-6	Pow Log	0.43		
EC: 203-603-9	Potential	Low		
2-methoxy-1-methylethyl acetate	BCF	1		
CAS: 108-65-6	Pow Log	0.43		
EC: 203-603-9	Potential	Low		
N-butyl acetate	BCF	4		
CAS: 123-86-4	Pow Log	1.78		
EC: 204-658-1	Potential	Low		

12.4 Mobility in soil:

Identification	Absorption/desorption		Absorption/desorption Volatility		lity
N-butyl acetate	Кос	Non-applicable	Henry	Non-applicable	
CAS: 123-86-4	Conclusion	Non-applicable	Dry soil	Non-applicable	
EC: 204-658-1	Surface tension	2,478E-2 N/m (25 °C)	Moist soil	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)					
	08 01 11*	waste paint and varnish containing organic solvents or other 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):							

Safety data sheet

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077 - URETHANE-BASED ENAMEL Colours: 4100, 4101, 4103, 4105, 4121, 4123

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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 2021 and RID 2021:

With regard to AL	JK 202		
	14.1	UN number:	UN1263
	14.2	UN proper shipping name:	PAINT
	14.3	Transport hazard class(es):	3
$\langle \simeq \rangle$		Labels:	3
		Packing group:	III
	14.5	Environmental hazards:	No
	14.6	Special precautions for user	
		Special regulations:	163, 367, 650
		Tunnel restriction code:	D/E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
	14.7	Transport in bulk according	Non-applicable
		to Annex II of Marpol and the IBC Code:	
Transport of da	naoro	us goods by sea:	
-	-		
With regard to IM			
		UN number:	UN1263
		UN proper shipping name:	PAINT
Jele,	14.3	Transport hazard class(es):	3
		Labels:	3
		Packing group:	III
3		Marine pollutant:	No
•	14.6	Special precautions for user	
		Special regulations:	223, 955, 163, 367
		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 Annex II of Marpol and	Non-applicable
		the IBC Code:	
Transport of da	ngero	us goods by air:	
With regard to IA	-		

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SECTION 14: TRANSPORT INFORMATION (continued)						
	14.2 14.3 14.4	UN number: UN proper shipping name: Transport hazard class(es): Labels: Packing group: Environmental hazards:	UN1263 PAINT 3 3 III No			
	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

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements			
P5c	FLAMMABLE LIQUIDS	5000	50000			
Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):						

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,

- metallic glitter intended mainly for

artificial snow and frost,

"whoopee" cushions,

— silly string aerosols,

imitation excrement,

- horns for parties,
- decorative flakes and foams,

artificial cobwebs,

— stink bombs.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

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.

** Changes with regards to the previous version



SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. 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

2-methoxy-1-methylethyl acetate (108-65-6)

Removed substances

Cobalt bis(2-ethylhexanoate) (136-52-7)

Titanium dioxide (aerodynamic diameter \leq 10 µm) (13463-67-7)

Substances that contribute to the classification (SECTION 2):

Removed substances

Cobalt bis(2-ethylhexanoate) (136-52-7)

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

Hazard statements

Precautionary statements

Texts of the legislative phrases mentioned in section 2:

H336: May cause drowsiness or dizziness.

H412: Harmful to aquatic life with long lasting effects.

H373: May cause damage to organs through prolonged or repeated exposure (Inhalation).

H226: 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:

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

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

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).

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 3: Calculation method STOT RE 2: Calculation method Flam. Lig. 3: 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:

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.