

TOPCOAT 605 - FG605

**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

**1.1. Product identifier**

Product name : TOPCOAT 605

Product code : FG605.

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

Industrial coating for professionals

**Use descriptor system (REACH) :**

SU: 3 - PC: 9a.0

**1.3. Details of the supplier of the safety data sheet**

Registered company name : CIN MONOPOL.

Address : ZI des Auréats, 56 allée Bernard Palissy.26000.VALENCE.France.

Telephone : (33) 4 75 44 21 17. Fax : (33) 4 75 44 07 85.

Info FDS : arnaud.gobin@cin.com

<http://www.monopol-sa.com>

**1.4. Emergency telephone number : (33) 1 45 42 59 59.**

Association/Organisation : ORFILA.

**SECTION 2 : HAZARDS IDENTIFICATION**

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

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Flammable liquid, Category 3 (Flam. Liq. 3, H226).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

May produce an allergic reaction (EUH208).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

**2.2. Label elements**

Mixture for spray application.

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS02



GHS07



GHS08

Signal Word :

WARNING

Product identifiers :

EC 215-535-7 XYLENE

Additional labeling :

EUH208 Contains 2-ETHYLHEXANOATE DE COBALT. May produce an allergic reaction.

Hazard statements :

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure (if inhaled).

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

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

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P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

## Precautionary statements - Response :

P302 + P352 IF ON SKIN: Wash with plenty of water/...  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER/doctor/... if you feel unwell.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contains substances  $\geq 0.1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

Identification	(EC) 1272/2008	Note	%
INDEX: 601_022_009A CAS: 1330-20-7 EC: 215-535-7 REACH: 01-2119488216-32  XYLENE	GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412	C [1]	25 $\leq$ x % < 50
INDEX: 00000001 EC: 920-750-0 REACH: 01-2119473851-33  HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS	GHS09, GHS07, GHS08, GHS02 Dgr Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH:066		2.5 $\leq$ x % < 10
INDEX: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH: 01-2119475791-29  2-METHOXY-1-METHYLETHYL ACETATE	GHS02 Wng Flam. Liq. 3, H226	[1]	2.5 $\leq$ x % < 10
INDEX: 000175 EC: 918-481-9 REACH: 01-2119457273-39  HYDROCARBONES, C10-C13, N-ALCANES, ISOALCANES, CYCLIQUES, <2% AROMATIQUES	GHS08 Dgr Asp. Tox. 1, H304 EUH:066		1 $\leq$ x % < 2.5
INDEX: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1 REACH: 01-2119485493-29  N-BUTYL ACETATE	GHS02, GHS07 Wng Flam. Liq. 3, H226 STOT SE 3, H336 EUH:066	[1]	1 $\leq$ x % < 2.5

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INDEX: 00112 CAS: 22464-99-9 EC: 245-018-1 REACH: 01-2119979088-21-0000  CARBOXYLAT DE ZIRCONIUM	GHS08 Wng Repr. 2, H361d	[2]	0.1 <= x % < 1
INDEX: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4 REACH: 01-2119489370-35  ETHYLBENZENE	GHS02, GHS07, GHS08 Dgr Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 Asp. Tox. 1, H304	[1]	0.1 <= x % < 1
INDEX: 000298 CAS: 77-99-6 EC: 201-074-9 REACH: 01-2119486799-10  PROPYLIDYNETRIMETHANOL	GHS08 Wng Repr. 2, H361fd	[2]	0.1 <= x % < 1
INDEX: 000115 CAS: 136-52-7 EC: 2052-50-6 REACH: 01-2119524678-29  2-ETHYLHEXANOATE DE COBALT	GHS09, GHS07, GHS08 Wng Skin Sens. 1, H317 Repr. 2, H361f Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[2]	0.1 <= x % < 1
INDEX: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 REACH: 01-2119484609-23-XXXX  2-METHYLPROPAN-1-OL	GHS02, GHS05, GHS07 Dgr Flam. Liq. 3, H226 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336	[1]	0 >= x % < 0.03
INDEX: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 REACH: 01-2119484630-38-XXXX  BUTAN-1-OL	GHS02, GHS05, GHS07 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336	[1]	0 >= x % < 0.02
INDEX: 607-089-00-0 CAS: 79-09-4 EC: 201-176-3 REACH: 01-2119486971-24  PROPIONIC ACID	GHS05 Dgr Skin Corr. 1B, H314	B [1]	0 >= x % < 0.01
INDEX: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH: 01-2119475108-36-XXXX  2-BUTOXYETHANOL	GHS07 Wng Acute Tox. 4, H332 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]	0 >= x % < 0.001
INDEX: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH: 01-2119471310-51  TOLUENE	GHS02, GHS08, GHS07 Dgr Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336	[1] [2]	0 >= x % < 0.001

**TOPCOAT 605 - FG605****Specific concentration limits:**

Identification	Specific concentration limits	ATE
INDEX: 607-089-00-0 CAS: 79-09-4 EC: 201-176-3 REACH: 01-2119486971-24  PROPIONIC ACID	Skin Corr. 1B: H314 C <sub>&gt;=</sub> 25% Skin Irrit. 2: H315 10% <= C < 25% Eye Dam. 1: H318 C <sub>&gt;=</sub> 25% Eye Irrit. 2: H319 10% <= C < 25% STOT SE 3: H335 C <sub>&gt;=</sub> 10%	
INDEX: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH: 01-2119475108-36-XXXX  2-BUTOXYETHANOL		oral: ATE = 1200 mg/kg BW

**Information on ingredients :**

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures****In the event of exposure by inhalation :**

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of inhalation of spray mist, seek medical attention immediately, showing the packaging or label.

In the event of an allergic reaction, seek medical attention.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

In the event of an allergic reaction, seek medical attention.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

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**SECTION 5 : FIREFIGHTING MEASURES**

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

**5.1. Extinguishing media**

Keep packages near the fire cool, to prevent pressurised containers from bursting.

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO<sub>2</sub>)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

**6.3. Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

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**6.4. Reference to other sections**

No data available.

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**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

**Fire prevention :**

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always ground when decanting. Wear antistatic shoes and clothing and make floors of non-conductive

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not inhale vapours.

Where the personnel must carry out work in a booth, whether for spraying or otherwise, the ventilation may be inadequate to control particles and solvent vapors in every case.

It is therefore recommended that personnel wear masks with a compressed air supply during spraying operations until the concentration of particles and solvent vapors has fallen below the exposure limits.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Avoid exposure - obtain special instructions before use.

Packages which have been opened must be reclosed carefully and stored in an upright position.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

**Packaging**

Always keep in packaging made of an identical material to the original.

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## 7.3. Specific end use(s)

No data available.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

## Occupational exposure limits :

- European Union (2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
1330-20-7	221	50	442	100	Peau
108-65-6	275	50	550	100	Peau
123-86-4	241	50	723	150	
100-41-4	442	100	884	200	Peau
79-09-4	31	10	62	20	-
111-76-2	98	20	246	50	Peau
108-88-3	192	50	384	100	Peau

- France (INRS - ED984 / 2020-1546) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
1330-20-7	50	221	100	442	*	4 Bis. 84. *
108-65-6	50	275	100	550	-	-
123-86-4	150	710	200	940	-	84
100-41-4	20	88.4	100	442	*	84
78-83-1	50	150	-	-	-	84
71-36-3	-	-	50	150	-	84
79-09-4	10	31	20	62	-	-
111-76-2	10	49	50	246	*	84
108-88-3	20	76.8	100	384	R2. *	4bis.84

- Italy (Decree, 26/02/2004) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1330-20-7	50 ppm 221 mg/m3	100 ppm 442 mg/m3		Pelle	
108-65-6	50 ppm 275 mg/m3	100 ppm 550 mg/m3		Pelle	
100-41-4	100 ppm 442 mg/m3	200 ppm 884 mg/m3		Pelle	
79-09-4	10 ppm 31 mg/m3	20 ppm 62 mg/m3			
111-76-2	20 ppm 98 mg/m3	50 ppm 246 mg/m3		Pelle	

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1330-20-7	50 ppm 220 mg/m <sup>3</sup>	100 ppm 441 mg/m <sup>3</sup>		Sk. BMGV	
108-65-6	50 ppm 274 mg/m <sup>3</sup>	100 ppm 548 mg/m <sup>3</sup>		Sk	
123-86-4	150 ppm 724 mg/m <sup>3</sup>	200 ppm 966 mg/m <sup>3</sup>			
100-41-4	100 ppm 441 mg/m <sup>3</sup>	125 ppm 552 mg/m <sup>3</sup>		Sk	
78-83-1	50 ppm 154 mg/m <sup>3</sup>	75 ppm 231 mg/m <sup>3</sup>			
71-36-3		50 ppm 154 mg/m <sup>3</sup>		Sk	
79-09-4	10 ppm 31 mg/m <sup>3</sup>	15 ppm 46 mg/m <sup>3</sup>			

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111-76-2	25 ppm 123 mg/m <sup>3</sup>	50 ppm 246 mg/m <sup>3</sup>		Sk. BMGV	
108-88-3	50 ppm 191 mg/m <sup>3</sup>	100 ppm 384 mg/m <sup>3</sup>		Sk	

**8.2. Exposure controls****Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

When spraying, wear a face shield in accordance with standard EN166.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)

Recommended properties :

N/A

N/A

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

- A3 (Brown)



**TOPCOAT 605 - FG605****SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****Physical state**

Physical state : Viscous liquid.

**Colour**

Unspecified

**Odour**

Odour threshold : Not stated.

**Melting point**

Melting point/melting range : Not relevant.

**Freezing point**

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not relevant.

**Flammability**

Flammability (solid, gas) : Not stated.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

**Flash point**

Flash Point Interval : 23°C &lt;= FP &lt;= 55°C

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

**Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

**pH**

pH : Not relevant.

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Insoluble.

Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not stated.

**Vapour pressure**

Vapour pressure (50°C) : Below 110 kPa (1.10 bar).

**Density and/or relative density**

Density : &gt; 1

**Relative vapour density**

Vapour density : Not stated.

**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

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**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid**

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

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**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

May cause severe damage to organs in the event of repeated or prolonged exposure.

**11.1.1. Substances**

**Acute toxicity :**

XYLENE (CAS: 1330-20-7)

Dermal route :

1,000 < LD50 <= 2000 mg/kg

Inhalation route (Dusts/mist) :

1 < LC50 <= 5 mg/l

Duration of exposure : 4 h

2-BUTOXYETHANOL (CAS: 111-76-2)

Oral route :

LD50 = 1200 mg/kg

**11.1.2. Mixture**

**Respiratory or skin sensitisation :**

Contains at least one sensitising substance. May cause an allergic reaction.

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**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

- CAS 108-88-3 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
- CAS 111-76-2 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
- CAS 100-41-4 : IARC Group 2B : The agent is possibly carcinogenic to humans.
- CAS 1330-20-7 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

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**SECTION 12 : ECOLOGICAL INFORMATION**

Harmful to aquatic life with long lasting effects.  
The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

**German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :**

WGK 2 : Hazardous for water.

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :**

08 01 11 \* waste paint and varnish containing organic solvents or other dangerous substances

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**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 - ICAO/IATA 2021).

**14.1. UN number or ID number**

1263

**14.2. UN proper shipping name**

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

**TOPCOAT 605 - FG605****14.3. Transport hazard class(es)**

- Classification :



3

**14.4. Packing group**

III

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	5 L	163 367 650	E1	3	D/E

If Q &lt;450l, see 2.2.3.1.5.1.

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	3	-	III	5 L	F-E. S-E	163 223 367 955	E1	Category A	-

if Q &lt; 450 l see IMDG 2.3.2.5.

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	-	III	355	60 L	366	220 L	A3 A72 A192	E1
	3	-	III	Y344	10 L	-	-	A3 A72 A192	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

**14.7. Maritime transport in bulk according to IMO instruments**

No data available.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :**

WGK 2 : Hazardous for water.

**15.2. Chemical safety assessment**

No data available.

**TOPCOAT 605 - FG605****SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Abbreviations :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

CMR: Carcinogenic, mutagenic or reprotoxic.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

PC 9a - Coatings and paints, thinners, paint removers

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

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

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

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GHS02 : Flame  
GHS07 : Exclamation mark  
GHS08 : Health hazard  
PBT: Persistent, bioaccumulable and toxic.  
vPvB : Very persistent, very bioaccumulable.  
SVHC : Substances of very high concern.

**Difference Report**

Revision: N°3 (04/07/2022) / Version: N°1 (04/07/2022)

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

~~Revision: N°2 (11/08/2016) / Version: N°8 (21/09/2021)~~

**SAFETY DATA SHEET**

~~(REACH regulation (EC) n° 1907/2006 - n° 2015/830)~~

**SECTION 2 : HAZARDS IDENTIFICATION****In compliance with EC regulation No. 1272/2008 and its amendments.**

~~Acute dermal toxicity, Category 4 (Acute Tox. 4, H312).~~

~~Acute inhalation toxicity, Category 4 (Acute Tox. 4, H332).~~

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).

**In compliance with EC regulation No. 1272/2008 and its amendments.**

~~601-022-00-9~~

~~XYLENE~~

~~H312 + H332~~

~~Harmful in contact with skin or if inhaled.~~

~~P261~~

~~Avoid breathing dust/fume/gas/mist/vapours/spray.~~

~~P280~~

~~Wear protective gloves/protective clothing/eye protection/face protection.~~

GHS02  
EC 215-535-7

GHS07  
XYLENE

GHS08

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

H373

May cause damage to organs through prolonged or repeated exposure (if inhaled).

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

P302 + P352

IF ON SKIN: Wash with plenty of water/...

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362 + P364

Take off contaminated clothing and wash it before reuse.

**2.3. Other hazards**

The mixture does not contain substances >= 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

## TOPCOAT 605 - FG605

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

## Composition :

INDEX: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 REACH: 01-2119488216-32  XYLENE	GHS02, GHS07 Wng Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 4, H312 Skin Irrit. 2, H315	C [+]	25 <= x % < 50
INDEX: 607-089-00-0 CAS: 79-09-4 EC: 201-176-3 REACH: 01-2119486971-24  PROPIONIC ACID	GHS05 Dgr Skin Corr. 1B, H314	B [+]	0 >= x % < 0.02
INDEX: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 REACH: 01-2119484630-38-XXXX  BUTAN-1-OL	GHS02, GHS05, GHS07 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336	[+]	0 >= x % < 0.005
INDEX: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH: 01-2119475108-36-XXXX  2-BUTOXYETHANOL	GHS07 Wng Acute Tox. 4, H332 Acute Tox. 4, H312 Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315	[+]	0 >= x % < 0.001
INDEX: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH: 01-2119471310-51  TOLUENE	GHS02, GHS08, GHS07 Dgr Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336	[+] [2]	0 >= x % < 0.0005
INDEX: 601_022_009A CAS: 1330-20-7 EC: 215-535-7 REACH: 01-2119488216-32  XYLENE	GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412	C [1]	25 <= x % < 50
INDEX: 000298 CAS: 77-99-6 EC: 201-074-9 REACH: 01-2119486799-10  PROPYLIDYNETRIMETHANOL	GHS08 Wng Repr. 2, H361fd	[2]	0.1 <= x % < 1

## TOPCOAT 605 - FG605

INDEX: 603-004-00-6 CAS: 71-36-3 EC: 200-751-6 REACH: 01-2119484630-38-XXXX  BUTAN-1-OL	GHS02, GHS05, GHS07 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336	[1]	0 >= x % < 0.02
INDEX: 607-089-00-0 CAS: 79-09-4 EC: 201-176-3 REACH: 01-2119486971-24  PROPIONIC ACID	GHS05 Dgr Skin Corr. 1B, H314	B [1]	0 >= x % < 0.01
INDEX: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH: 01-2119475108-36-XXXX  2-BUTOXYETHANOL	GHS07 Wng Acute Tox. 4, H332 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]	0 >= x % < 0.001
INDEX: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH: 01-2119471310-51  TOLUENE	GHS02, GHS08, GHS07 Dgr Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336	[1] [2]	0 >= x % < 0.001

**Specific concentration limits:**

Identification	Specific concentration limits	ATE
INDEX: 607-089-00-0 CAS: 79-09-4 EC: 201-176-3 REACH: 01-2119486971-24  PROPIONIC ACID	Skin Corr. 1B: H314 C>= 25% Skin Irrit. 2: H315 10% <= C < 25% Eye Dam. 1: H318 C>= 25% Eye Irrit. 2: H319 10% <= C < 25% STOT SE 3: H335 C>= 10%	
INDEX: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH: 01-2119475108-36-XXXX  2-BUTOXYETHANOL		oral: ATE = 1200 mg/kg BW

**SECTION 4 : FIRST AID MEASURES****In the event of exposure by inhalation :**

~~Do not proceed with mouth-to-mouth or mouth-to-nose resuscitation. Use the appropriate equipment.~~

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

**In the event of splashes or contact with skin :**

~~Remove any soiled or splashed clothing immediately.~~

**In the event of splashes or contact with eyes :**

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**SECTION 7 : HANDLING AND STORAGE****Recommended equipment and procedures :**

~~Avoid inhaling vapors.~~

Do not inhale vapours.

Avoid skin and eye contact with this mixture.



**TOPCOAT 605 - FG605**

Avoid exposure - obtain special instructions before use.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****- Eye / face protection**

~~Before handling, wear safety goggles in accordance with standard EN166.~~

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

When spraying, wear a face shield in accordance with standard EN166.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

~~Impervious gloves in accordance with standard EN ISO 374 2~~

**- Respiratory protection**

- A3 (Brown)

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****Important health, safety and environmental information**

Vapour pressure (50°C):	<del>Not relevant.</del>
<b>Colour</b>	
Unspecified	
<b>Odour</b>	
Odour threshold :	Not stated.
<b>Freezing point</b>	
Freezing point / Freezing range :	Not stated.
<b>Flammability</b>	
Flammability (solid, gas) :	Not stated.
<b>Lower and upper explosion limit</b>	
Explosive properties, lower explosivity limit (%) :	Not stated.
Explosive properties, upper explosivity limit (%) :	Not stated.
<b>Kinematic viscosity</b>	
Viscosity :	Not stated.
<b>Solubility</b>	
Fat solubility :	Not stated.
<b>Partition coefficient n-octanol/water (log value)</b>	
Partition coefficient: n-octanol/water :	Not stated.
<b>Vapour pressure</b>	
Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).
<b>Relative vapour density</b>	
Vapour density :	Not stated.

**SECTION 11 : TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

~~Harmful in contact with skin.~~

~~Harmful by inhalation.~~

~~2-butoxyethanol and its acetate are absorbed directly through the skin and have harmful effects on the blood.~~

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

May cause severe damage to organs in the event of repeated or prolonged exposure.

**TOPCOAT 605 - FG605****11.1.1. Substances**~~No toxicological data available for the substances.~~**Acute toxicity :**

Dermal route : Harmful in contact with skin.  
1,000 < LD50 <= 2000 mg/kg

Inhalation route (Dusts/mist) : Harmful by inhalation.  
Duration of exposure : 4 h  
1 < LC50 <= 5 mg/l

**Acute toxicity :**

XYLENE (CAS: 1330-20-7)  
Dermal route : 1,000 < LD50 <= 2000 mg/kg

Inhalation route (Dusts/mist) : 1 < LC50 <= 5 mg/l  
Duration of exposure : 4 h

2-BUTOXYETHANOL (CAS: 111-76-2)  
Oral route : LD50 = 1200 mg/kg

**SECTION 14 : TRANSPORT INFORMATION**~~Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2019 - IMDG 2018 - ICAO/IATA 2020).~~

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage	Handling
	3	-	III	5 L	F-E, S-E	163-223-367-955	E1	Category A	-

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 - ICAO/IATA 2021).

	3	-	III	5 L	F-E, S-E	163 223 367 955	E1	Category A	-
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**SECTION 15: Regulatory information**~~SECTION 15 : REGULATORY INFORMATION~~**- Classification and labelling information included in section 2:**

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

**SECTION 16 : OTHER INFORMATION****Wording of the phrases mentioned in section 3 :**

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H412 Harmful to aquatic life with long lasting effects.

**Abbreviations :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.  
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.  
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.  
ATE : Acute Toxicity Estimate  
BW : Body Weight  
GHS08 : Health hazard