

PU TOP GREEN PASTE RAL 6032

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Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name PU TOP GREEN PASTE RAL 6032

UFI: **8Q55-F061-2009-YXQV**

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

Intended use Colour paste

Identified Uses Industrial Professional Consumer
Colour paste - - - - - -

1.3. Details of the supplier of the safety data sheet

Name IMPER ITALIA SRL Full address Via Rita Atria, 9

District and Country 10079 - Mappano (TO) - Italy

Tel. +39 011 2225 499

e-mail address of the competent person

responsible for the Safety Data Sheet safety@imper.it

1.4. Emergency telephone number

For urgent inquiries refer to United Kingdom

999/112 emergency

111 non-emergency medical number

NHS 111 (England) NHS 24 (Scotland) NHS Direct (Wales)

Ireland

National Poisons Information Centre, Beaumont Hospital, PO Box 1297, Beaumont

Road, Dublin 9 018092166 018092566

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		



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SECTION 2. Hazards identification .../>>

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:







Signal words: Danger

Hazard statements:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.H315 Causes skin irritation.

H335 May cause respiratory irritation.

Precautionary statements:

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

P331 Do NOT induce vomiting.

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

P301+P310 IF SWALLOWED: immediately call a POISON CENTER

P370+P378 In case of fire: use carbon dioxide, sand, foam or powder to extinguish.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains: REACTION MASS OF ETHYLBENZENE AND XYLENE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

REACTION MASS OF ETHYLBENZENE AND XYLENE

CAS $24 \le x < 25,5$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

EC 905-588-0 ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l

INDEX

REACH Reg. 01-2119488216-32; 01-2119539452-40

TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

CAS 13463-67-7 16,5 \leq x < 18 Carc. 2 H351, Classification note according to Annex VI to the CLP

Regulation: 10, V, W

EC 236-675-5 INDEX 022-006-00-2 REACH Reg. 01-2119489379-17



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SECTION 3. Composition/information on ingredients

2-METHOXY-1-METHYLETHYL ACETATE

CAS 108-65-6 $4,5 \le x < 5$

EC 203-603-9 **INDEX** 607-195-00-7 REACH Reg. 01-2119475791-29

N-BUTYL ACETATE

CAS 123-86-4 $3.5 \le x < 4$

EC 204-658-1 INDFX 607-025-00-1 REACH Reg. 01-2119485493-29

XYLENE

FC

CAS 1330-20-7 $0.05 \le x < 0.1$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the

CLP Regulation: C

ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l

215-535-7 INDFX 601-022-00-9 REACH Reg. 01-2119488216-32

ETHYLBENZENE

CAS 100-41-4 $0 \le x < 0.05$

Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,

Aquatic Chronic 3 H412

LC50 Inhalation vapours: 17,2 mg/l/4h

Flam. Liq. 3 H226, STOT SE 3 H336

Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 202-849-4 INDEX 601-023-00-4 REACH Reg. 01-2119489370-35

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.



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SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama



LTU

NLD

PRT

POL

ROU

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SECTION 8. Exposure controls/personal protection .../>>

Italia

Lietuva

Nederland

Portugal

Polska

Slovensko

na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)

Decreto Legislativo 9 Aprile 2008, n.81

Jsakymas dėl lietuvos higienos normos hn 23:2011 "cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai" patvirtinimo

Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3,

eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit

Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os

riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos

Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające

rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych

dla zdrowia w środowisku pracy

Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru România

modificarea și completarea hotărârii guvernului nr. 1.093/2006

NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred

rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení

neskorších predpisov

EH40/2005 Workplace exposure limits (Fourth Edition 2020) **GBR** United Kingdom

OEL EU Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) ΕU

2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive

2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive

91/322/EEC.

TLV-ACGIH ACGIH 2022

		REAC	CTION	MASS OF E	THYLBENZE	NE A	ND XYLE	ENE			
hreshold Limit Valu	ie										
Type C	Country	TWA/8h		;	STEL/15min			Remarks	/ Observa	tions	
		mg/m3	ppm	I	mg/m3	ppn	n				
OEL E	U	221	50		442	100	0				
redicted no-effect c	oncentra	tion - PNEC									
Normal value in fre	sh water							0,	327	mg/l	
Normal value in ma	arine water	•						0,	327	mg/l	
Normal value for fro	esh water	sediment						12	2,46	mg/kg	
Normal value for m	arine wate	er sediment						12	2,46	mg/kg	
Normal value of ST	P microor	ganisms						6,	58	mg/l	
Normal value for th	e terrestri	al compartment						2,	31	mg/kg	
lealth - Derived no-e	effect leve	I - DNEL / DMEL									
	Effec	cts on consumers					Effects or	n workers			
Route of exposure	Acut	e Acute		Chronic	Chronic		Acute	A	cute	Chronic	Chronic
	local	systemic		local	systemic		local	S	/stemic	local	systemic
Inhalation		•			-		442	44	42	221	221
							mg/m3	m	g/m3	mg/m3	mg/m3
Skin										NPI	212
											mg/kg
											bw/d

TITAN	IIUM DIOXID	E [in powder	form containir	ng 1 % or more of	particles wi	ith aerodynamic diameter ≤ 10
	μm]					
hreshold Limit V	/alue					
Type	Country	TWA/8h		STEL/15mir	n	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	10				
VLEP	FRA	10				
TLV	GRC		10			
GVI/KGVI	HRV	10				INHAL
GVI/KGVI	HRV	4				RESP
RD	LTU	5				
NDS/NDSCh	POL	10				INHAL
TLV	ROU	10		15		
NPEL	SVK	5				
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		10				



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SECTION 8. Exposure controls/personal protection />>

reshold Limit \	/alue		Z-IVIE	1 11 O X 1 - 1 - IV	METHYLETHYL	ACETATE				
Type	Country	TWA/8h			STEL/15min		Remar	ks / Observa	ations	
туре	Country	mg/m3	ppm		mg/m3	ppm	rtemai	NS / ODSCIVE	itions	
AGW	DEU	270	50		270	50				
MAK	DEU	270	50		270	50				
VLA	ESP	275	50		550	100	SKIN			
VLEP	FRA	275	50		550	100	SKIN			
HTP	FIN	270	50		550	100	SKIN			
TLV	GRC	275	50		550	100				
GVI/KGVI	HRV	275	50		550	100	SKIN			
VLEP	ITA	275	50		550	100	SKIN			
RD	LTU	250	50		400	75	SKIN			
TGG	NLD	550								
VLE	PRT	275	50		550	100	SKIN			
NDS/NDSCh	POL	260			520		SKIN			
TLV	ROU	275	50		550	100	SKIN			
NPEL	SVK	275	50		550	100	SKIN			
WEL	GBR	274	50		548	100	SKIN			
OEL	EU	275	50		550	100	SKIN			
edicted no-effe	ct concentra	ation - PNEC								
Normal value in	fresh water							0,635	mg/l	
Normal value in	n marine wate	er						0,064	mg/l	
Normal value for	or fresh water	r sediment						3,29	mg/kg	
Normal value for	or marine wat	er sediment						0,329	mg/kg	
Normal value o								100	mg/l	
Normal value for	or the terrestr	ial compartment						0,29	mg/kg	
ealth - Derived	no-effect lev	el - DNEL / DME	L							
	Effe	cts on consumers	;			Effects of	on worke	rs		
Route of expos	ure Acu	te Acute		Chronic	Chronic	Acute		Acute	Chronic	Chronic
	loca	ıl systemio	:	local	systemic	local		systemic	local	systemic
Inhalation						550				275
						mg/m3				mg/m3
Skin										796
										mg/kg



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10 101 OKLENTAGIE KAE 003

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hreshold Limit V	/aluo			N-BUT	YL ACETATE	.			
Type	Country	TWA/8h			TEL/15min		Remarks / Observa	ntions	
туре	Country	mg/m3	ppm		ng/m3	ppm	Nemarks / Observe	1110115	
AGW	DEU	300	62		00 (C)	124 (C)			
VLA	ESP	241	50		724	150			
VLEP	FRA	710	150	-	940	200			
TLV	GRC	710	150	-	950	200			
GVI/KGVI	HRV	241	50		723	150			
VLEP	ITA	241	50		723 723	150			
RD	LTU	241	50		723	150			
TGG	NLD	150	50	•	723	130			
VLE	PRT	241	50	-	723	150			
NDS/NDSCh	POL	240	50		720	130			
TLV	ROU	241	50		723	150			
NPEL	SVK	241	50		723	150			
WEL	GBR	724	150		966	200			
OEL	EU	241	50		723	150			
TLV-ACGIH	LO	241	50		723	150			
Predicted no-effe	t concentra	tion - PNFC	50			130			
Normal value in		tion Theo					0,18	mg/l	
Normal value in		۵r					0,018	mg/l	
Normal value for							0,981	mg/kg	
Normal value for							0,098	mg/kg	
Normal value of							35,6	mg/l	
		rial compartment					0.09	mg/kg	
lealth - Derived r		•					0,00		
icaitii - Deriveu i		ects on consumers	_			Effects	on workers		
Route of expos				Chronic	Chronic	Acute	Acute	Chronic	Chronic
rioute of expos	loca			ocal	systemic	local	systemic	local	systemic
Inhalation	1002	ii systeiliit	. 10	cai	Systernic	600	600	300	300
maladon						mg/m3	mg/m3	mg/m3	mg/m3
Skin						NPI	11	NPI	11
OMIT						INII	mg/kg	INI I	mg/kg
							bw/d		bw/d

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huaahalal limit V	/alua				XYLENE					
hreshold Limit V		TWA/8h			STEL/15min		Domor	ks / Observa	tiono	
Туре	Country		nnm			nnm	Remai	ks / Observa	illoris	
AGW	DEU	mg/m3 440	ppm 100		ng/m3 880	ppm 200	CIZINI			
					880		SKIN			
MAK	DEU	440	100			200	SKIN			
VLA	ESP	221	50		442	100	SKIN			
VLEP	FRA	221	50		442	100	SKIN			
HTP	FIN	220	50		440	100	SKIN			
TLV	GRC	435	100		650	150				
GVI/KGVI	HRV	221	50		442	100	SKIN			
VLEP	ITA	221	50		442	100	SKIN			
RD	LTU	221	50		442	100	SKIN			
TGG	NLD	210			442		SKIN			
VLE	PRT	221	50		442	100	SKIN			
NDS/NDSCh	POL	100			200		SKIN			
TLV	ROU	221	50		442	100	SKIN			
NPEL	SVK	221	50		442	100	SKIN			
WEL	GBR	220	50		441	100	SKIN			
OEL	EU	221	50		442	100	SKIN			
TLV-ACGIH		434	100		651	150				
redicted no-effe	ct concentra	ation - PNEC								
Normal value in	fresh water							0,327	mg/l	
Normal value in	marine wate	er						0,327	mg/l	
Normal value for	or fresh wate	r sediment						12,46	mg/kg	
Normal value for	or marine wa	ter sediment						12,46	mg/kg	
Normal value of	f STP microc	organisms						6.58	mg/l	
		ial compartment						2,31	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL / DMEI								
caitii Beiivea		ects on consumers				Effects	on worke	re		
Route of expos				Chronic	Chronic	Acute	on wonc	Acute	Chronic	Chronic
	loca			ocal	systemic	local		systemic	local	systemic
Inhalation	1000	a systemic	J 10	Joan	Systerrito	442		442	221	221
uuuu						mg/m3		mg/m3	mg/kg	mg/m3
Skin						1119/1110		g/iiio	9/119	212
ONIII										mg/kg
										bw/d



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SECTION 8. Exposure controls/personal protection

				ETHYLBENZE	NE	
Threshold Limit \	/alue					
Type	Country	TWA/8h		STEL/15mir	n	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	88	20	176	40	SKIN
MAK	DEU	88	20	176	40	SKIN
VLA	ESP	441	100	884	200	SKIN
VLEP	FRA	88,4	20	442	100	SKIN
HTP	FIN	220	50	880	200	SKIN
TLV	GRC	435	100	545	125	
GVI/KGVI	HRV	442	100	884	200	SKIN
VLEP	ITA	442	100	884	200	SKIN
RD	LTU	442	100	884	200	SKIN
TGG	NLD	215		430		SKIN
VLE	PRT	442	100	884	200	SKIN
NDS/NDSCh	POL	200		400		SKIN
TLV	ROU	442	100	884	200	SKIN
NPEL	SVK	442	100	884	200	SKIN
WEL	GBR	441	100	552	125	SKIN
OEL	EU	442	100	884	200	SKIN

Predicted no-effect concenti ation - PNEC

TLV-ACGIH

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	13,7	mg/kg
Normal value for marine water sediment	1,37	mg/kg
Normal value of STP microorganisms	9,6	mg/l
Normal value for the food chain (secondary poisoning)	20	mg/kg
Normal value for the terrestrial compartment	2,68	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL	
Effects on consumers	

	Effects o	n consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation					293		NPI	77
					mg/m3			mg/m3
Skin					NPI	NPI	NPI	180
								mg/kg
								bw/d

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

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VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low

hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374); compatibility, degradation, permeability

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion. **EYE PROTECTION**

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use





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Method:Closed cup

Temperature: 20 °C

concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information
Appearance liquid

Coloursee section 1Odourcharacteristic of solvent

Melting point / freezing point not available Initial boiling point > 137 °C Flammability not applicable Lower explosive limit not available Upper explosive limit not available

Flash point 27 °C
Auto-ignition temperature not available
Decomposition temperature not available
pH not applicable
Kinematic viscosity 999 mPa*s

Dynamic viscosity

Solubility

Partition coefficient: n-octanol/water

Vapour pressure

Density and/or relative density

Relative vapour density

Particle characteristics

p999 mPa*s
insoluble in water
not applicable
not available
not available
not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids (250°C / 482°F) 35,86 %

VOC (Directive 2010/75/EU) 33,09 % - 496,36 g/litre

Explosive properties not expected Oxidising properties not expected

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

N-BUTYL ACETATE

Decomposes on contact with: water.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

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SECTION 10. Stability and reactivity .../>>

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

XYLENE

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

XYLENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

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XYI FNF

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

XYLENE

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: > 20 mg/l

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: >2000 mg/kg

REACTION MASS OF ETHYLBENZENE AND XYLENE

LD50 (Dermal): 12126 mg/kg New Zealand White rabbit

ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/kg EU Method B.1, Rat - F344/N 6350 ppm/4h EU Method B.2, Rat - Long-Evans LC50 (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP ATE (Inhalation vapours):

(figure used for calculation of the acute toxicity estimate of the mixture)

TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

LD50 (Oral): > 10000 mg/kg Rat

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rat LD50 (Oral): 8530 mg/kg Rat

N-BUTYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rabbit LD50 (Oral): > 6400 mg/kg Rat 21,1 mg/l/4h Rat LC50 (Inhalation vapours):

XYI FNF

4350 mg/kg Rabbit LD50 (Dermal):

ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/kg Rat 26 mg/l/4h Rat LC50 (Inhalation vapours):

ETHYLBENZENE

LD50 (Dermal): 15354 mg/kg Rabbit LD50 (Oral): 3500 mg/kg Rat 17,2 mg/l/4h Rat LC50 (Inhalation vapours):

SKIN CORROSION / IRRITATION

Causes skin irritation

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SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter \leq 10 μ m] The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter \leq 10 μ m.

XYLENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT-SINGLE EXPOSURE

May cause respiratory irritation

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

May cause damage to organs



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SECTION 11. Toxicological information/>>

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Toxic for aspiration

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

REACTION MASS OF ETHYLBENZENE AND XYLENE

LC50 - for Fish 2,6 mg/l/96h OECD Guideline 203, Oncorhynchus mykiss

EC50 - for Crustacea 1 mg/l/48h OECD Guideline 202, Daphnia magna

EC50 - for Algae / Aquatic Plants 1,3 mg/l/72h OECD Guideline 201, Pseudokirchneriella subcapitata

12.2. Persistence and degradability

XYLENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

TITANIUM DIOXIDE [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Solubility in water < 0,001 mg/l

Degradability: information not available

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

12.3. Bioaccumulative potential

XYLENE

Partition coefficient: n-octanol/water 3,12 BCF 25,9

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 BCF 15.3



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SECTION 12. Ecological information .../>>

12.4. Mobility in soil

XYLENE

Partition coefficient: soil/water 2,73

N-BUTYL ACETATE

Partition coefficient: soil/water < 3

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1263

14.2. UN proper shipping name

ADR / RID: PAINT RELATED MATERIAL IMDG: PAINT RELATED MATERIAL IATA: PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO



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Packaging instructions: 366

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14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Quantities: 5 L Tunnel restriction code: (D/E)

Special provision: 163, 367, 650

IMDG:EMS: F-E, S-ELimited Quantities: 5 LIATA:Cargo:Maximum quantity: 220 L

Passengers: Maximum quantity: 60 L Packaging instructions: 355

Special provision: A3, A72, A192

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P56

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Carc. 2 Carcinogenicity, category 2
Acute Tox. 4 Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3 **Aquatic Chronic 3** Hazardous to the aquatic environment, chronic toxicity, category 3

H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H351Suspected of causing cancer.

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SECTION 16. Other information .../>>

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- The Merck Index. 10th Edition
- Handling Chemical Safety





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SECTION 16. Other information .../>>

- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.