

# Safety Data Sheet

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

1. Product identifier	
Code:	E0002015
Product name	Primertec AD
.2. Relevant identified uses of the sub	estance or mixture and uses advised against
Intended use	Liquid bituminous paint. Professional use.
.3. Details of the supplier of the safety	/ data sheet
Name	Matco S.r.I.
Full address	Via Quadrelli 69
District and Country	37055 Ronco all'Adige (VR) Italia
	tel. 045 6608111
	fax 045 6608177
e-mail address of the competent perso	n
responsible for the Safety Data Sheet	info@matcosrl.com
.4. Emergency telephone number	
For urgent inquiries refer to	Marco Marano CAVp Osp. Pediatrico Bambino Gesù Roma Piazza Sant'Onofrio, 4 00165 Tel06 68593726
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	Tel. 800883300

# **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 2	H225	Highly flammable liquid and vapour.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
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,		

EN



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# SECTION 2. Hazards identification ... / >>

category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		

# 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:		
H225	Highly flammable liquid and vapour. H361d	
	Suspected of damaging the unborn child.	
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.	
H336	May cause drowsiness or dizziness.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statement		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smo	king.
P331	Do NOT induce vomiting.	
P280	Wear protective gloves/ protective clothing / eye protection / face protection.	
P301+P310	IF SWALLOWED: immediately call a POISON CENTER / doctor /	
P370+P378	In case of fire: use carbon dioxide, powde, foam to extinguish.	
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.	
Contains:	Toulene	
	XYLENE	
	N-BUTYL ACETATE	
	ISOBUTYL ACETATE	
VOC (Directive 2004/42)		
Binding primers.		
Limit value:	oduct in a ready-to-use condition : 478,61	
Limit value:	750,00	
2.3. Other hazards		

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

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

# **SECTION 3. Composition/information on ingredients**

# 3.1. Substances

Information not relevant



# SECTION 3. Composition/information on ingredients ..../>>

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3.2. Mixtures

Contains:			
Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
Oxidized bitu	men f.	50 ≤ x < 54	
EC	265-196-4		
CAS	64742-93-4		
REACH Reg.	01-2119498270-36	•	
Toulene	01 2110400210 00		
INDEX	601-021-00-3	18 ≤ x < 19,5	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
EC	203-625-9		
CAS	108-88-3		
REACH Reg.	01-2119471310-51		
XYLENE			
INDEX		8,5 ≤ x < 10	Flam. Lig. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,
nide).		0,0 = X 1 10	STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C
EC	905-562-9		STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l
CAS REACH Reg.	01-2110555267-33		
N-BUTYL ACI			
INDEX	607-025-00-1	8≤x< 9	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC		0 2 X < 9	Fiam. Eq. 5 fizzo, 5101 5E 5 fi350, E0fi000
CAS	204-658-1 123-86-4		
REACH Reg.			
ISOBUTYL A			
INDEX		4 ≤ x < 4,5	Elem Lig 2 H225 STOT SE 2 H226 ELIHOSS Classification note according
INDEX	607-026-00-7	4 - X < 4,5	Flam. Liq. 2 H225, STOT SE 3 H336, EUH066, Classification note according to Annex VI to the CLP Regulation: C
EC	203-745-1		
CAS	110-19-0		
REACH Reg.	01-2119488971-22		
HIDROCARB	ONS, C9, AROMATIC	S	
INDEX		2 ≤ x < 2,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI to the CLP Regulation: P
EC	918-668-5		to the CLF Regulation. F
CAS	970-000-0		
REACH Reg.	01-2119455851-35		
ETHYL ACET			
INDEX	607-022-00-5	2 ≤ x < 2,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	205-500-4	/ ( _,0	······································
CAS	141-78-6		
REACH Reg.			
ETHYLBENZI			
INDEX	601-023-00-4	2 ≤ x < 2,5	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,
		,0	Aquatic Chronic 3 H412
EC	202-849-4		LC50 Inhalation vapours: 17,2 mg/l/4h
CAS	100-41-4		······································
REACH Reg.	01-2119489370-35		
Acetonitrile *			
INDEX		1 ≤ x < 1,5	Flam. Liq. 2 H225, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,
		,-	Eye Irrit. 2 H319
EC			STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11
			mg/l, STA Inhalation mists/powders: 1,5 mg/l
CAS	75-05-8		
REACH Reg.	01-2119471307-38		
CYCLOHEXA			
INDEX	606-010-00-7	1 ≤ x < 1,5	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332,
		·	Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335
EC	203-631-1		LD50 Oral: 1890 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours:
			11 mg/l
CAS	108-94-1		-
REACH Reg.	01-2119453616-35		
5			



ΕN

SECTION 3. Composition/information on ingredients ... / >>

# DIACETONE ALCOHOL

 INDEX
 603-016-00-1
 1 ≤ x < 1,5</th>

 EC
 204-626-7

 CAS
 123-42-2

 REACH Reg.
 01-2119473975-21

Repr. 2 H361d, Eye Irrit. 2 H319, STOT SE 3 H335

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. 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.



## SECTION 6. Accidental release measures .../>>

# 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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

# 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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:

CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb.,
DEU	Deutschland	kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů 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
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
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 na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 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



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

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				Т	oulene				
hreshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / 0	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	200		500		SKIN			
AGW	DEU	190	50	760	200	SKIN			
MAK	DEU	190	50	760	200	SKIN			
VLEP	FRA	76,8	20	384	100	SKIN			
GVI/KGVI	HRV	192	50	384	100	SKIN			
VLEP	ITA	192	50			SKIN			
WEL	GBR	191	50	384	100	SKIN			
OEL	EU	192	50	384	100	SKIN			
TLV-ACGIH		75,4	20						
TLV-ACGIH		75,4			20	SKIN			
redicted no-effe	ct concentra	ation - PNE	0						
Normal value ir	n fresh water						0,68	mg/l	
Normal value ir	n marine wate	er					0,68	mg/l	
Normal value for	or fresh wate	r sediment					16,39	mg/kg	
Normal value for	or marine wa	ter sediment					16,39	mg/kg	
Normal value for	or water, inte	rmittent relea	ase				0,68	mg/l	
Normal value o	of STP microo	organisms					13,61	mg/l	
Normal value for	or the terrest	rial compartr	nent				2,89	mg/kg	
ealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	ects on consi	umers			Effects on wo	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	al sys	stemic	local	systemic	local	systemic	local	systemic
Oral					8,13 mg/kg/d				
Inhalation	226 mg/		3 /m3		56,5 mg/m3	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin	U				226 mg/kg/d	-	-		384 mg/kg/d

XYLENE Threshold Limit Value STEL/15min Remarks / Observations TWA/8h Туре Country ppm mg/m3 mg/m3 ppm TLV CZE 45,4 90,8 SKIN 200 400 AGW DEU 440 100 880 200 SKIN DEU SKIN 440 100 880 MAK 200 VLEP FRA 221 50 442 100 SKIN 650 TLV GRC 100 150 435 GVI/KGVI HRV 221 50 442 100 SKIN ITA 50 442 SKIN VLEP 221 100 TLV ROU 221 50 442 100 SKIN SKIN MV SVN 221 50 442 100 WEL GBR 220 50 441 100 SKIN ΕU 50 SKIN OEL 221 442 100 TLV-ACGIH 20

	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
ΓLV	CZE	950	196,65	1200	248,4	
AGW	DEU	300	62	600 (C)	124 (C)	
VLEP	FRA	710	150	940	200	
TLV	GRC	710	150	950	200	
GVI/KGVI	HRV	241	50	723	150	
VLEP	ITA	241	50	723	150	
TLV	ROU	241	50	723	150	
ΜV	SVN	300	62	600	124	
NEL	GBR	724	150	966	200	
DEL	EU	241	50	723	150	
LV-ACGIH			50		150	

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# **ISOBUTYL ACETATE**

Threshold Limit	Value					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	950	196,65	1200	248,4	
AGW	DEU	300	62	600 (C)	124 (C)	
VLEP	FRA	710	150	940	200	
TLV	GRC	950	200	950	200	
GVI/KGVI	HRV	241	50	723	150	
VLEP	ITA	241	50	723	150	
TLV	ROU	241	50	723	150	
MV	SVN	300	62	600	124	
WEL	GBR	724	150	903	187	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	

# ETHYLBENZENE

Emredenzene									
Threshold Limit \	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	200	45,4	500	113,5	SKIN			
AGW	DEU	88	20	176	40	SKIN			
MAK	DEU	88	20	176	40	SKIN			
VLEP	FRA	88,4	20	442	100	SKIN			
TLV	GRC	435	100	545	125				
GVI/KGVI	HRV	442	100	884	200	SKIN			
VLEP	ITA	442	100	884	200	SKIN			
TLV	ROU	442	100	884	200	SKIN			
MV	SVN	442	100	884	200	SKIN			
WEL	GBR	441	100	552	125	SKIN			
OEL	EU	442	100	884	200	SKIN			
TLV-ACGIH		87	20						

ETHYL ACETATE										
Threshold Limit Value										
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	CZE	700	191,1	900	245,7					
AGW	DEU	730	200	1460	400					
MAK	DEU	750	200	1500	400					
VLEP	FRA	734	200	1468	400					
TLV	GRC	734	200	1468	400					
GVI/KGVI	HRV	734	200	1468	400					
VLEP	ITA	734	200	1468	400					
TLV	ROU	734	200	1468	400					
MV	SVN	734	200	1468	400					
WEL	GBR	734	200	1468	400					
OEL	EU	734	200	1468	400					
TLV-ACGIH		1441	400							



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0,31

mg/kg/d

				DIACETO	NE ALCOH	OL			
Threshold Limit	Value								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Ob	servations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	200	41,4	300	62,1				
AGW	DEU	96	20	192	40	SKIN			
MAK	DEU	96	20	192	40	SKIN			
VLEP	FRA	240	50						
TLV	GRC	240	50	360	75				
GVI/KGVI	HRV	241	50	362	75				
TLV	ROU	150	32	250	53				
MV	SVN	96	20	192	40	SKIN			
WEL	GBR	241	50	362	75				
TLV-ACGIH		238	50						
Predicted no-eff	ect concentra	ation - PNEC							
Normal value	in fresh water						2	mg/l	
Normal value	in marine wat	er					0,2	mg/l	
Normal value	for fresh wate	r sediment					7,4	mg/kg/d	
Normal value	for marine wa	ter sediment					0,74	mg/kg/d	
Normal value	for water, inte	rmittent relea	se				1	mg/l	
Normal value	of STP microo	organisms					10	mg/l	

CYCLOHEXANONE

Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	40	9,8	80	196	SKIN	
AGW	DEU	80	20	80	20	SKIN	
VLEP	FRA	40,8	10	81,6	20		
TLV	GRC	200	50	400	100		
GVI/KGVI	HRV	40,8	10	81,6	20	SKIN	
VLEP	ITA	40,8	10	81,6	20	SKIN	
TLV	ROU	40,8	10	81,6	20	SKIN	
MV	SVN	40,8	10	81,6	20	SKIN	
WEL	GBR	41	10	82	20	SKIN	
OEL	EU	40,8	10	81,6	20	SKIN	
TLV-ACGIH		80	20	201	50	SKIN	

# Legend:

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

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.

Aromatic hydrocarbon, C9 hydrocarbons, aromatics Two/8h 100mg/m3 19 ppm stel/15min

Normal value for the terrestrial compartment

#### 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, failure time and 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 166).

ΕN



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

## RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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. The protection provided by masks is in any case limited.

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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

# **SECTION 9.** Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Properties Appearance Colour Odour Melting point / freezing point Initial boiling point Flammability Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature Decomposition temperature pH Kinematic viscosity Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density Particle characteristics	~	Value liquid black characteristic of solvent not available 65 °C not available not available 23 °C not available not available	Information
9.2. Other information			
9.2.1. Information with regard to physical	hazard cla	asses	
Information not available			
9.2.2. Other safety characteristics			
VOC (Directive 2004/42/EC) :		50,77 % - 478,61	g/litre

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

N-BUTYL ACETATE Decomposes on contact with: water. ISOBUTYL ACETATE Decomposes under the effect of heat.Attacks various types of plastic materials. ETHYL ACETATE Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

DIACETONE ALCOHOL



ΕN

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

Decomposes at temperatures above 90°C/194°F. CYCLOHEXANONE Attacks various types of plastic materials. May condense under the effect of heat to form resinous compounds.

#### 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.

#### **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.

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.

#### **ISOBUTYL ACETATE**

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

#### ETHYLBENZENE

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

#### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine.strong oxidising

agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

# DIACETONE ALCOHOL

Risk of explosion on contact with: air, sources of heat. May react dangerously with: alkaline metals, amines, oxidising agents, acids. **CYCLOHEXANONE** 

Risk of explosion on contact with: hydrogen peroxide, nitric acid, heat, mineral acids. May react violently with: oxidising agents. Forms 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.

ISOBUTYL ACETATE

Avoid exposure to: sources of heat, naked flames.

ETHYL ACETATE

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

DIACETONE ALCOHOL

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

# CYCLOHEXANONE

Avoid exposure to: sources of heat.naked flames.

# 10.5. Incompatible materials

N-BUTYL ACETATE

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

**ISOBUTYL ACETATE** 

Incompatible with: strong oxidants, nitrates, strong acids, strong bases.

**ETHYL ACETATE** 

Incompatible with: acids,bases,strong oxidants,chlorosulphuric acid.

# 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



SECTION 11. Toxicological information ... / >>

Metabolism, toxicokinetics, mechanism of action and other information

#### Information not available

#### Information on likely routes of exposure

# XYLENE

WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

#### N-BUTYL ACETATE WORKERS: inhalation; contact with the skin.

#### ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

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

# DIACETONE ALCOHOL

WORKERS: inhalation; contact with the skin.

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

#### XYLENE

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

# 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.

#### ETHYLBENZENE

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.

#### DIACETONE ALCOHOL

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

#### Interactive effects

#### 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.

# 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).

# ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	
(Inhalation - vapours) of the mixture:	
ATE (Oral) of the mixture:	
ATE (Dermal) of the mixture:	

Toulene	
LD50 (Dermal):	
LD50 (Oral):	
LC50 (Inhalation vapours):	

12267 mg/kg rabbit 5000 mg/kg 24h rat 25,7 mg/l/4h rat

> 5 mg/l ATE > 20 mg/l >2000 mg/kg >2000 mg/kg ΕN



# SECTION 11. Toxicological information ... / >>

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**XYLENE** LD50 (Dermal): 4350 mg/kg Rabbit STA (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) 3523 mg/kg Rat LD50 (Oral): LC50 (Inhalation vapours): 26 mg/l/4h Rat STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) N-BUTYL ACETATE LD50 (Dermal): > 5000 mg/kg Rabbit LD50 (Oral): > 6400 mg/kg Rat LC50 (Inhalation vapours): 21,1 mg/l/4h Rat ETHYLBENZENE LD50 (Dermal): 15354 mg/kg Rabbit LD50 (Oral): 3500 mg/kg Rat LC50 (Inhalation vapours): 17,2 mg/l/4h Rat Acetonitrile \*\*\* STA (Oral): 500 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) 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP STA (Dermal): (figure used for calculation of the acute toxicity estimate of the mixture) 1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP STA (Inhalation mists/powders): (figure used for calculation of the acute toxicity estimate of the mixture) STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) DIACETONE ALCOHOL LD50 (Dermal): 2 ml/kg ratto-Coniglio DL 50 13,75 mg/Kg LD50 (Oral): 3 g/kg Rat 7,6 mg/l/4h su animale LC50 (Inhalation vapours): CYCLOHEXANONE STA (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) 1890 mg/kg Rat LD50 (Oral): LC50 (Inhalation vapours): > 6,2 mg/l/4h Rat

11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

Aromatic hydrocarbon, C9 hydrocarbons, aromatics Hydrocarbons, aromatic c9 oral LD50 3492 mg/kg/rat ld50cuanea <3160 mg/kg rabbit lc50 inhalation> 6193 mg/m3rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

STA (Inhalation vapours):

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

# 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".

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# SECTION 11. Toxicological information ... / >>

# 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

Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

DIACETONE ALCOHOL

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**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

# 12.1. Toxicity

Aromatic hydrocarbon, C9 hydrocarbons, aromatics LC50 Pisces 9.2 mg/96h EC50 Crustacean fish 3.2 mg/l48h El50 Daphnia Magna Ec50 Algae/Aquatic plants 2.9 mg/l/72h EL50PSEUDOKIGKERNIELLAGNELLA SUBCAPIATED

DIAGETONE ALCOHOL	
LC50 - for Fish	> 100 mg/l/96h oryzia latipes
EC50 - for Crustacea	> 1000 mg/l/48h pulce d'acqua grande
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h pseudokirchneriella subcapitata
Chronic NOEC for Crustacea	100 mg/l 21d
Chronic NOEC for Algae / Aquatic Plants	1000 mg/l 72h
Toulene	
LC50 - for Fish	5,5 mg/l/96h Oncorhynchus kisutch
EC50 - for Crustacea	3,78 mg/l/48h Ceriodaphnia dubia
EC50 - for Algae / Aquatic Plants	134 mg/l/72h Chlamydomonas angulosa
Chronic NOEC for Fish	1,39 mg/l 40 giorni - Oncorhynchus kisutch
Chronic NOEC for Crustacea	0,74 mg/l 7 giorni - Ceriodaphnia dubia
Chronic NOEC for Algae / Aquatic Plants	10 mg/l 72 ore - Skeletonema costatum
12.2. Persistence and degradability	

# XYLENE 100 - 1000 mg/l Solubility in water 100 - 1000 mg/l ETHYLBENZENE 1000 - 10000 mg/l Solubility in water 1000 - 10000 mg/l Rapidly degradable DIACETONE ALCOHOL Solubility in water 1000 - 10000 mg/l Rapidly degradable 1000 - 10000 mg/l

@ EPY 11.5.2 - SDS 1004.14



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# SECTION 12. Ecological information ... / >>

CYCLOHEXANONE Solubility in water Rapidly degradable	0,1 - 100 mg/l
ETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
N-BUTYL ACETATE Solubility in water	1000 - 10000 mg/l
ISOBUTYL ACETATE Solubility in water Rapidly degradable	1000 - 10000 mg/l
Toulene Rapidly degradable	Rapidamente Biodegradabile
12.3. Bioaccumulative potential	
XYLENE Partition coefficient: n-octanol/water BCF	3,12 25,9
ETHYLBENZENE Partition coefficient: n-octanol/water	3,6
DIACETONE ALCOHOL Partition coefficient: n-octanol/water	-0,09
CYCLOHEXANONE Partition coefficient: n-octanol/water	0,86
ETHYL ACETATE Partition coefficient: n-octanol/water BCF	0,68 30
N-BUTYL ACETATE Partition coefficient: n-octanol/water BCF	2,3 15,3
ISOBUTYL ACETATE Partition coefficient: n-octanol/water BCF	2,3 15,3
Toulene BCF	90
12.4. Mobility in soil	
XYLENE Partition coefficient: soil/water	2,73
CYCLOHEXANONE Partition coefficient: soil/water	1,18
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  $\geq$  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.



SECTION 12. Ecological information ... / >>

# 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 or PAINT RELATED MATERIAL MIXTURE
IMDG:	PAINT or PAINT RELATED MATERIAL MIXTURE
IATA:	PAINT or PAINT RELATED MATERIAL MIXTURE

#### 14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3	*
			3
IMDG:	Class: 3	Label: 3	
			3
			*
IATA:	Class: 3	Label: 3	3

#### 14.4. Packing group

ADR / RID, IMDG, IATA: II

## 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

#### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special provision: 163, 3	367, 640(C-D), 650	
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Passengers:	Maximum quantity: 5 L	Packaging instructions: 353
	Special provision:	A3, A72, A192	

# 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

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STOT RE 2

Eye Dam. 1

Eye Irrit. 2

Skin Irrit. 2

STOT SE 3 Aquatic Chronic 2

H225

H226

H361d

H302

**Aquatic Chronic 3** 

# **PRIMERTEC AD**

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# **SECTION 15. Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Seveso Category - Directive 2012/18/EU: P5c 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 Point Toulene 48 REACH Reg.: 01-2119471310-51 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 $\geq$ 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. VOC (Directive 2004/42/EC) : Binding primers. 15.2. Chemical safety assessment A chemical safety assessment has been performed for the following contained substances Toulene XYLENE N-BUTYL ACETATE ETHYL ACETATE DIACETONE ALCOHOL **SECTION 16. Other information** Text of hazard (H) indications mentioned in section 2-3 of the sheet: Flam. Lig. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3 Reproductive toxicity, category 2 Repr. 2 Acute Tox. 4 Acute toxicity, category 4 Asp. Tox. 1 Aspiration hazard, category 1

Specific target organ toxicity - repeated exposure, category 2

Specific target organ toxicity - single exposure, category 3

Hazardous to the aquatic environment, chronic toxicity, category 2

Hazardous to the aquatic environment, chronic toxicity, category 3

Serious eye damage, category 1

Highly flammable liquid and vapour.

Suspected of damaging the unborn child.

Flammable liquid and vapour.

Harmful if swallowed.

Eye irritation, category 2

Skin irritation, category 2



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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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.

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)



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SECTION 16. Other information ... / >>

- The Merck Index. 10th Edition
- Handling Chemical Safety
- 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.

Changes to previous review: The following sections were modified: 01/02/03/08/09/10/11/12/14/15/16.