

**10T - CTS-PRIMER** 

Revision nr.4 Dated 13/04/2023 Printed on 13/04/2023 Page n. 1 / 16 Replaced revision:3 (Dated 06/04/2020)

# **Safety Data Sheet**

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

<b>SECTION 1. Identification of the s</b>	ubstance/n	nixture and of the co	mpany/undertaking
1.1. Product identifier			
Code: Product name	10T CTS-PRII	MER	
1.2. Relevant identified uses of the substance	or mixture and	uses advised against	
Intended use	ADHESIC	ON PRIMER	
1.3. Details of the supplier of the safety data s	heet		
Name Full address District and Country		ESINE S.p.A. ace Vecchia, 79 Susegana Italia +39 0438-437511 +39 0438-435155	(TV)
e-mail address of the competent person responsible for the Safety Data Sheet	annabred	la@nordresine.com	
Supplier:	NORD RE	ESINE S.p.A.	
1.4. Emergency telephone number			
For urgent inquiries refer to	+39 0438	437511	

# **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, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.

#### 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.

@EPY 11.1.2 - SDS 1004.14



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

H361d	Suspected of dar	naging the unborn child.				
H304	May be fatal if sw	allowed and enters airways.				
H373	May cause dama	ge to organs through prolonged or repeated exposure.				
H315	Causes skin irrita	Causes skin irritation.				
H336	May cause drows	May cause drowsiness or dizziness.				
EUH208	Contains: p-TERT-BUTYLPHENYLGLYCIDYLETHER					
	May produce an	allergic reaction.				

#### 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 / doctor.
P370+P378	In case of fire: use carbon anhydride, foam, nebulized water to extinguish.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains:	TOLUENE
	N-BUTYL ACETATE
	METHYL ACETATE
	2-METHOXY-1-METHYLETHYL ACETATE

Product not intended for uses provided for by Directive 2004/42/EC.

#### 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

#### 3.2. Mixtures

Identification	x = Conc.	%	Classification (EC) 1272/2008 (CLP)
TOLUENE			
CAS	108-88-3	50 ≤ x < 75	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		
INDEX	601-021-00-3		
REACH Reg.	01-2119471310-51		
N-BUTYL ACE	TATE		
CAS	123-86-4	8 ≤ x < 10	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC	204-658-1		
INDEX	607-025-00-1		
REACH Reg.	01-2119485493-29		
METHYL ACE	TATE		
CAS	79-20-9	4≤x< 8	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	201-185-2		
INDEX	607-021-00-X		
REACH Reg.	01-2119459211-47		
2-METHOXY-1	-METHYLETHYL AC	CETATE	
CAS	108-65-6	1 ≤ x < 4	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-603-9		
INDEX	607-195-00-7		
REACH Reg.	01-2119475791-29		
METHANOL			
CAS	67-56-1	1≤x< 3	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370
EC	200-659-6		STOT SE 2 H371: ≥ 3%
INDEX	603-001-00-X		STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation vapours: 3 mg/l, STA Inhalation mists/powders: 0,501 mg/l
REACH Reg.	01-2119433307-44		



EC

# NORD RESINE S.p.A. **10T - CTS-PRIMER**

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

#### p-TERT-BUTYLPHENYLGLYCIDYLETHER

3101-60-8 CAS  $0 \le x < 1$ 221-453-2

Skin Sens. 1 H317, Aquatic Chronic 2 H411

INDFX REACH Reg. 01-2119959496-20

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.

#### 6.2. Environmental precautions



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

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., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
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
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''»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
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
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	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
POL	Polska	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
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)

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EU

OEL EU

TLV-ACGIH

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. ACGIH 2021

TOLUENE								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	192	50,112	384	100,224	SKIN		
AGW	DEU	190	50	760	200	SKIN		
MAK	DEU	190	50	760	200	SKIN		
VLA	ESP	192	50	384	100	SKIN		
VLEP	FRA	76,8	20	384	100	SKIN		
TLV	GRC	192	50	384	100			
AK	HUN	190		380		SKIN		
GVI/KGVI	HRV	192	50	384	100	SKIN		
VLEP	ITA	192	50			SKIN		
TGG	NLD	150		384				
VLE	PRT	192	50	384	100	SKIN		
NDS/NDSCh	POL	100		200		SKIN		
TLV	ROU	192	50	384	100	SKIN		
MV	SVN	192	50	384	100	SKIN		
WEL	GBR	191	50	384	100	SKIN		
OEL	EU	192	50	384	100	SKIN		
TLV-ACGIH			20					

N-BUTYL ACETATE										
Threshold Limit \	/alue									
Туре	Country	TWA/8h		STEL/15r	nin	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	CZE	950	196,65	1200	248,4					
AGW	DEU	300	62	600 (C)	124 (C)					
VLA	ESP	241	50	724	150					
VLEP	FRA	710	150	940	200					
TLV	GRC	710	150	950	200					
AK	HUN	241		723						
GVI/KGVI	HRV	241	50	723	150					
VLEP	ITA	241	50	723	150					
TGG	NLD	150								
VLE	PRT	241	50	723	150					
NDS/NDSCh	POL	240		720						
TLV	ROU	241	50	723	150					
MV	SVN	300	62	600	124					
WEL	GBR	724	150	966	200					
OEL	EU	241	50	723	150					
TLV-ACGIH			50		150					



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	METHYL ACETATE									
Threshold Limit Value										
Туре	Country	TWA/8h		STEL/15m	nin	Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm					
TLV	CZE	600	195	800	260					
AGW	DEU	620	200	1240 (C)	400 (C)					
MAK	DEU	310	100	1240	400					
VLA	ESP	616	200	770	250					
VLEP	FRA	610	200	760	250	SKIN				
TLV	GRC	610	200	760	250					
AK	HUN	310		1240		SKIN				
GVI/KGVI	HRV	616	200	770	250					
TGG	NLD	100								
NDS/NDSCh	POL	250		600						
TLV	ROU	200	63	600	188					
MV	SVN	610	200	1240	400					
WEL	GBR	616	200	770	250					
TLV-ACGIH		606	200	757	250					

## 2-METHOXY-1-METHYLETHYL ACETATE

				THOXY-1-IVIE I	HILCINIL /	ACETATE			
Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks /	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	270	49,14	550	100,1	SKIN			
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			
TLV	GRC	275	50	550	100				
AK	HUN	275		550					
GVI/KGVI	HRV	275	50	550	100	SKIN			
VLEP	ITA	275	50	550	100	SKIN			
TGG	NLD	550							
VLE	PRT	275	50	550	100	SKIN			
NDS/NDSCh	POL	260		520		SKIN			
TLV	ROU	275	50	550	100	SKIN			
MV	SVN	275	50	550	100	SKIN			
WEL	GBR	274	50	548	100	SKIN			
OEL	EU	275	50	550	100	SKIN			
Predicted no-effe	ct concentra	ation - PNE	C						
Normal value in	fresh water						0,635	mg/l	
Normal value in	marine wate	er					0,0635	mg/l	
Normal value for	or fresh water	r sediment					3,29	mg/kg	
Normal value for	or marine wat	ter sediment					0,329	mg/kg	
Normal value for	or water, inter	mittent relea	ase				6,35	mg/l	
Normal value of	f STP microc	rganisms					100	mg/l	
Normal value for	or the terrestr	ial compartr	nent				0,29	mg/kg	
Health - Derived n	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consi	umers			Effects on wo	orkers		
Route of exposi	ure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	temic	local	systemic	local	systemic	local	systemic
Oral					1,67 mg/kg/d				
Inhalation					33 mg/m3				275 mg/m3
Skin					54,8 mg/kg/d				153,5 mg/kg/d



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

METHANOL						
Threshold Limit	/alue					
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	250	187,75	1000	751	SKIN
AGW	DEU	270	200	1080	800	SKIN
MAK	DEU	130	100	260	200	SKIN
VLA	ESP	266	200			SKIN
VLEP	FRA	260	200	1300	1000	SKIN 11
TLV	GRC	260	200	325	250	
AK	HUN	260				SKIN
GVI/KGVI	HRV	260	200			SKIN
VLEP	ITA	260	200			SKIN
TGG	NLD	133				SKIN
VLE	PRT	260	200			SKIN
NDS/NDSCh	POL	100		300		SKIN
TLV	ROU	260	200			SKIN
MV	SVN	260	200	1040	800	SKIN
WEL	GBR	266	200	333	250	SKIN
OEL	EU	260	200			
TLV-ACGIH		262	200	328	250	SKIN

#### p-TERT-BUTYLPHENYLGLYCIDYLETHER

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0075	mg/l
Normal value in marine water	0,00075	mg/l
Normal value for fresh water sediment	33,54	mg/kg
Normal value for marine water sediment	3,354	mg/kg
Normal value for water, intermittent release	0,075	mg/l
Normal value of STP microorganisms	100	mg/l

#### Health - Derived no-effect level - DNEL / DMEL

	Effects on	consumers			Effects on work	kers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic	
	local	systemic	local	systemic	local	systemic	local	systemic	
Inhalation			11,7	11,7	19,6	19,6	19,6	19,6	
			mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	
Skin	0,00095	3,3	0,00095	3,3	0,0016	5,6	0,0016	5,6	
	mg/cm2	mg/kg bw/d	mg/cm2	mg/kg bw/d	mg/cm2	mg/kg	mg/cm2	mg/kg	
						bw/d		bw/d	

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.

#### 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 (see standard EN 374).

The following should be considered when choosing work glove material: 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).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (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.

ΕN



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

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

#### 9.1. Information on basic physical and chemical properties

Properties	Va			Information
Appearance	liqu			
Colour		PICAL		
Odour		racteristic of solve	ent	
Melting point / freezing point		available		
Initial boiling point	> 35	°C		
Flammability		available		
Lower explosive limit		available		
Upper explosive limit		available		
Flash point	< 23	°C		
Auto-ignition temperature	No	available		
рН	No	available		
Kinematic viscosity	No	available		
Solubility	No	available		
Partition coefficient: n-octanol/water	Na	available		
Vapour pressure	Na	available		
Density and/or relative density	0,9	)2 kg/l		
Relative vapour density	No	available		
Particle characteristics	No	applicable		
9.2. Other information				
9.2.1. Information with regard to physical ha	azard classes			
Information not available				
9.2.2. Other safety characteristics				
VOC (Directive 2010/75/EU)		04 % - 785,10	0	
VOC (volatile carbon)	72	73 % - 656,01	g/litre	
SECTION 40 Stability and road	41			

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

TOLUENE Avoid exposure to: light. N-BUTYL ACETATE Decomposes on contact with: water. 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.

#### 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.

TOLUENE



**10T - CTS-PRIMER** 

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

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds.May form explosive mixtures with: air.May react dangerously with: strong oxidising agents,strong acids,sulphur.

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.

2-METHOXY-1-METHYLETHYL ACETATE

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

#### 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

#### N-BUTYL ACETATE

Incompatible with: water,nitrates,strong oxidants,acids,alkalis,zinc. 2-METHOXY-1-METHYLETHYL ACETATE

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

#### 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.

# **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

TOLUENE

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

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

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

#### METHANOL

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

#### TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; 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.

#### 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).



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

#### METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

Interactive effects

#### TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

#### 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: ATE (Inhalation - vapours) of the mixture: ATE (Inhalation - gas) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	> 5 mg/l > 20 mg/l 0,0 mg/l >2000 mg/kg >2000 mg/kg
TOLUENE LD50 (Dermal):	12124 mg/kg Rabbit
LD50 (Oral):	5580 mg/kg Rat
LC50 (Inhalation vapours):	28,1 mg/l/4h Rat
N-BUTYL ACETATE	
LD50 (Dermal):	> 5000 mg/kg Rabbit
LD50 (Oral):	> 6400 mg/kg Rat
LC50 (Inhalation vapours):	21,1 mg/l/4h Rat
2-METHOXY-1-METHYLETHYL ACETATE	
LD50 (Dermal):	> 5000 mg/kg Rat
LD50 (Oral):	8530 mg/kg Rat
METHANOL	
	400 mm // um antimante from table 2.4.2 of Annow Laftha CLD
STA (Oral):	100 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) 300 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)
STA (Inhalation mists/powders):	0,501 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)
STA (Inhalation vapours):	3 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)
p-TERT-BUTYLPHENYLGLYCIDYLETHER	
LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	10000 mg/kg Rat
SKIN CORROSION / IRRITATION	
Causes skin irritation	
SERIOUS EVE DAMAGE / IRRITATION	

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: ΕN

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

p-TERT-BUTYLPHENYLGLYCIDYLETHER

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

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

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 drowsiness or dizziness

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

May cause damage to organs

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Toxic for aspiration



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

## 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

Information not available

## 12.2. Persistence and degradability

2-METHOXY-1-METHYLETHYL ACETATE	
Solubility in water Rapidly degradable	> 10000 mg/l
TOLUENE Solubility in water Rapidly degradable	100 - 1000 mg/l
METHANOL Solubility in water Rapidly degradable	1000 - 10000 mg/l
METHYL ACETATE Solubility in water Rapidly degradable	243500 mg/l
N-BUTYL ACETATE Solubility in water	1000 - 10000 mg/l
12.3. Bioaccumulative potential	
2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water	1,2
TOLUENE Partition coefficient: n-octanol/water BCF	2,73 90
METHANOL Partition coefficient: n-octanol/water BCF	-0,77 0,2
METHYL ACETATE Partition coefficient: n-octanol/water	0,18
N-BUTYL ACETATE Partition coefficient: n-octanol/water BCF	2,3 15,3
12.4. Mobility in soil	
METHYL ACETATE Partition coefficient: soil/water	0,18
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%.



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ΕN

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

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

#### 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, 367	, 640D, 650	
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Pass.:	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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# **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture P5c

Seveso Category - Directive 2012/18/EU:

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

Product		
Point	3 - 40	
Contained substance		
Point	69	METHANOL
		REACH Reg.: 01-2119433307-44
Point	48-75	TOLUENE
		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.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances N-BUTYL ACETATE

#### **SECTION 16. Other information**

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

Flam. Liq. 2 Repr. 2 Acute Tox. 3 STOT SE 1 Asp. Tox. 1 STOT RE 2 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 STOT SE 3 Aquatic Chronic 2 H225 H361d H301 H311 H331 H370 H304 H373 H319 H315	Flammable liquid, category 2 Reproductive toxicity, category 2 Acute toxicity, category 3 Specific target organ toxicity - single exposure, category 1 Aspiration hazard, category 1 Specific target organ toxicity - repeated exposure, category 2 Eye irritation, category 2 Skin irritation, category 2 Skin sensitization, category 1 Specific target organ toxicity - single exposure, category 3 Hazardous to the aquatic environment, chronic toxicity, category 2 Highly flammable liquid and vapour. Suspected of damaging the unborn child. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure. Causes skin irritation.



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## SECTION 16. Other information ... / >>

H336 H411 May cause drowsiness or dizziness. Toxic 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)
- 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



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#### SECTION 16. Other information ... / >>

#### 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: 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15 / 16.