

**BELLINZONI S.R.L.**

Revision nr. 10

Dated 17/04/2023

Printed on 17/04/2023

Page n. 1/18

Replaced revision:9 (Printed on: 30/10/2020)

PREPARATO SPECIALE COLORATO

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

Code: 001APN - 001APN350 - 001APN00750 - 001APN01300 - 001APN020 - 001APN06
Product name: PREPARATO SPECIALE COLORATO
UFI: 7UT0-90WM-X003-SJR3

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

Intended use: Black paste wax for polishing marble and granite surfaces

Identified Uses	Industrial	Professional	Consumer
Black wax	-	ERC: 8c, 8f. PROC: 10, 8a. PC: 31. LCS: PW.	-

1.3. Details of the supplier of the safety data sheet

Name: BELLINZONI S.R.L.
Full address: Via Mezzano 64
District and Country: 28069 Trecate (NO)
Italy
Tel. +39 0321 770558

e-mail address of the competent person

responsible for the Safety Data Sheet
Supplier:

laboratorio@bellinzoni.com
BELLINZONI S.r.l.

1.4. Emergency telephone number

For urgent inquiries refer to

- CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA – Roma - Piazza Sant'Onofrio, 4 CAP: 00165 – Telefono: 06 68593726 – Responsabile: Marco Marano
- Az. Osp. Univ. Foggia – Foggia - V.le Luigi Pinto, 1 – CAP: 71122 – Telefono: 800183459 – Responsabile: Anna Lepore
- Az. Osp. "A. Cardarelli" – Napoli - Via A. Cardarelli, 9 – CAP: 80131081- Telefono: 5453333 – Responsabile: Romolo Villani
- CAV Policlinico "Umberto I" - Roma - V.le del Policlinico, 155 – CAP: 161 – Telefono: 06-49978000 – Responsabile: M. Caterina Grassi
- CAV Policlinico "A. Gemelli" - Roma - Largo Agostino Gemelli, 8 – CAP: 168 – Telefono: 06-3054343 – Responsabile: Alessandro Barelli
- Az. Osp. "Careggi" U.O. Tossicologia Medica – Firenze - Largo Brambilla, 3 – CAP: 50134 – Telefono: 055-7947819 – Responsabile: Francesco Gambassi
- CAV Centro Nazionale di Informazione Tossicologica - Pavia – Via Salvatore Maugeri, 10 – CAP: 27100 - Telefono: 0382-24444 – Responsabile: Carlo Locatelli
- Osp. Niguarda Ca' Granda – Milano - Piazza Ospedale Maggiore, 3 – CAP: 20162 – Telefono: 02-66101029 – Responsabile: Franca Davanzo
- Azienda Ospedaliera Papa Giovanni XXII – Bergamo - Piazza OMS, 1 – CAP: 24127 – Telefono: 800883300 – Responsabile: Bacis Giuseppe
- Azienda Ospedaliera Integrata Verona – Verona - Piazzale Aristide Stefani, 1 – CAP: 37126 – Telefono 800011858

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 2/18 Replaced revision:9 (Printed on: 30/10/2020)

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:

Carcinogenicity, category 2	H351	Suspected of causing cancer.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



Signal words: Warning

Hazard statements:

H351	Suspected of causing cancer.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

Precautionary statements:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	IF exposed or concerned: Get medical advice / attention.
P312	Call a POISON CENTRE / doctor / if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of the product / container in accordance with local / regional / national / international regulations.

Contains: TETRACHLOROETHYLENE
2-METHOXY-1-METHYLETHYL ACETATE

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 $\geq$ 0.1%.

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 3/18 Replaced revision:9 (Printed on: 30/10/2020)

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
TETRACHLOROETHYLENE		
INDEX 602-028-00-4	$80 \leq x < 85$	Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317, STOT SE 3 H336, Aquatic Chronic 2 H411
EC 204-825-9		
CAS 127-18-4		
REACH Reg. 01-2119475329-28		
2-METHOXY-1-METHYLETHYL ACETATE		
INDEX 607-195-00-7	$2 \leq x < 3$	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-603-9		
CAS 108-65-6		
REACH Reg. 01-2119475791-29		

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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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 MEANS

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 4/18 Replaced revision:9 (Printed on: 30/10/2020)

UNSUITABLE EXTINGUISHING MEANS
Direct water jet

5.2. Special hazards arising from the substance or mixture

Dangerous combustion products: Fosgene. Chlorine hydrochloric acid

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
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.

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.

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 5/18 Replaced revision:9 (Printed on: 30/10/2020)

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool place away from humidity

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:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021 , Fassung vom 17.06.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
CYP	Κύπρος	Οι περί Αζθάλειας και Υγείας ζην Διγάζια (Φημικοί Πατάγονηρ) (Τποποιοηηκοί) Κανονιζμοί ηος 2019. Οι περί Ασφάλειας και Υγείας στην Εργασία (Καρκινογόνοι και Μεταλλαξιογόνοι Παράγοντες) (Τροποποιοηηκοί) Κανονισμοί του 2020
CZE	Česká Republika	Nafízení vlády č. 41/2020 Sb. Nafízení vlády, kterým se mění nafízení 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
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohtegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
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 HÄLSOVÄRDSMINISTERIETS 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 μεταλλαξιογόνους παράγοντες κατά την εργασία``»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kórok tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
IRL	Éire	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
LUX	Luxembourg	Règlement grand-ducal du 24 janvier 2020 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection des salariés contre les risques liés à l'exposition à des agents cancérigènes ou mutagènes au travail
LTU	Lietuva	Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
MLT	Malta	PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit

		BELLINZONI S.R.L.				Revision nr. 10	
		PREPARATO SPECIALE COLORATO				Dated 17/04/2023 Printed on 17/04/2023 Page n. 6/18 Replaced revision:9 (Printed on: 30/10/2020)	
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 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 modificarea și completarea hotărârii guvernului nr. 1.093/2006 Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1) 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 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) Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733 EH40/2005 Workplace exposure limits (Fourth Edition 2020) 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. ACGIH 2022					
POL	Polska						
ROU	România						
SWE	Sverige						
SVK	Slovensko						
SVN	Slovenija						
TUR	Türkiye						
GBR	United Kingdom						
EU	OEL EU						
	TLV-ACGIH						
TETRACHLOROETHYLENE							
Threshold Limit Value							
Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	138	20	275	40	SKIN	Häufigkeit pro Schicht:4x
VLEP	BEL	138	20	275	40	SKIN	
TLV	BGR	138	20	275	40	SKIN	
MAK	CHE	138	20	275	40	SKIN	
VME/VLE	CHE	138	20	275	40	SKIN	
TLV	CYP	138	20	275	40	SKIN	
TLV	CZE	138	20,286	275	40,425	SKIN	
AGW	DEU	69	10	138	20	SKIN	
TLV	DNK	70	10			SKIN	
VLA	ESP	138	20	275	40	SKIN	
TLV	EST	70	10	170	25		
VLEP	FRA	138	20	275	40		
TLV	GRC	138	20	275	40	SKIN	
AK	HUN	138		275		SKIN	
GVI/KGVI	HRV	138	20	275	40	SKIN	
VLEP	ITA	138	20	275	40	SKIN	
OELV	IRL	138	20	275	40	SKIN	
VL	LUX	138	20	275	40	SKIN	
RD	LTU	70	10	170	25	SKIN	
RV	LVA	70	10	140	20	SKIN	
TLV	MLT	138	20	275	40	SKIN	
TLV	NOR	40	6	120	18	SKIN	
TGG	NLD	138		275		SKIN	
VLE	PRT	138	20	275	40	SKIN	

		BELLINZONI S.R.L.				Revision nr. 10					
		PREPARATO SPECIALE COLORATO				Dated 17/04/2023					
						Printed on 17/04/2023					
				Page n. 7/18				Replaced revision:9 (Printed on: 30/10/2020)			
NDS/NDSch	POL	85		170		SKIN					
TLV	ROU	50	7	100	14	SKIN					
NGV/KGV	SWE	70	10	170	25	SKIN					
NPEL	SVK	138	20	275	40	SKIN					
MV	SVN	345	50	1380	200	SKIN					
WEL	GBR	138	20	275	40	SKIN					
OEL	EU	138	20	275	40	SKIN					
TLV-ACGIH		170	25	678	100						
Predicted no-effect concentration - PNEC											
Normal value in fresh water				0,05		mg/l					
Normal value in marine water				0,005		mg/l					
Normal value for fresh water sediment				0,9		mg/kg					
Normal value for marine water sediment				0,009		mg/kg					
Normal value for water, intermittent release				3		mg/l					
Normal value of STP microorganisms				11,2		mg/l					
Normal value for the terrestrial compartment				0,01		mg/kg					
Health - Derived no-effect level - DNEL / DMEL											
	Effects on consumers				Effects on workers						
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic			
Oral				1.3 mg/kg bw/d							
Inhalation		138 mg/m3		34.5 mg/m3	275	275 mg/m3		138 mg/m3			
Skin				23 mg/kg bw/d				39.4 mg/kg bw/d			
2-METHOXY-1-METHYLETHYL ACETATE											
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15min		Remarks / Observations					
		mg/m3	ppm	mg/m3	ppm						
MAK	AUS	275	50	550	100	SKIN	STEL:5(Mow), Häufigkeit/Sch:8x				
VLEP	BEL	275	50	550	100	SKIN					
TLV	BGR	275	50	550	100	SKIN					
MAK	CHE	275	50	275	50						
VME/VLE	CHE	275	50	275	50						
TLV	CYP	275	50	550	100	SKIN					
TLV	CZE	270	49,14	550	100,1	SKIN					
AGW	DEU	270	50	270	50						
MAK	DEU	270	50	270	50						
TLV	DNK	275	50			SKIN	E				
VLA	ESP	275	50	550	100	SKIN					
TLV	EST	275	50	550	100	SKIN					
VLEP	FRA	275	50	550	100	SKIN					
HTP	FIN	270	50	550	100	SKIN					

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.

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 9/18 Replaced revision:9 (Printed on: 30/10/2020)

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.

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.

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, 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	Value	Information
Appearance	paste	
Colour	black	
Odour	solvent	Substance:TETRACHLOROETHYLENE
Odour threshold	27 ppm	Substance:TETRACHLOROETHYLENE
Melting point / freezing point	-22 °C	Substance:TETRACHLOROETHYLENE
Initial boiling point	121 °C	Substance:TETRACHLOROETHYLENE
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 60 °C	
Auto-ignition temperature	650 °C	Substance:TETRACHLOROETHYLENE
Decomposition temperature	not available	
pH	not available	Reason for missing data:the mixture is not polar / aprotic

	BELLINZONI S.R.L.		Revision nr. 10																					
	PREPARATO SPECIALE COLORATO		Dated 17/04/2023 Printed on 17/04/2023 Page n. 10/18 Replaced revision:9 (Printed on: 30/10/2020)																					
<table><tr><td>Kinematic viscosity</td><td>> 5000 mm2/s</td><td>Method:BROOKFIELD DV1 HA (spindle=4 / speed=50 / T=20°C)</td></tr><tr><td>Solubility</td><td>150 g/l</td><td>Substance:TETRACHLOROETHYLENE</td></tr><tr><td>Partition coefficient: n-octanol/water</td><td>not available</td><td>Reason for missing data:The product is a blend</td></tr><tr><td>Vapour pressure</td><td>25 hPa</td><td>Substance:TETRACHLOROETHYLENE</td></tr><tr><td>Density and/or relative density</td><td>1,20 - 1,60 g/cm3</td><td></td></tr><tr><td>Relative vapour density</td><td>5,76</td><td>Substance:TETRACHLOROETHYLENE</td></tr><tr><td>Particle characteristics</td><td>not applicable</td><td></td></tr></table>				Kinematic viscosity	> 5000 mm2/s	Method:BROOKFIELD DV1 HA (spindle=4 / speed=50 / T=20°C)	Solubility	150 g/l	Substance:TETRACHLOROETHYLENE	Partition coefficient: n-octanol/water	not available	Reason for missing data:The product is a blend	Vapour pressure	25 hPa	Substance:TETRACHLOROETHYLENE	Density and/or relative density	1,20 - 1,60 g/cm3		Relative vapour density	5,76	Substance:TETRACHLOROETHYLENE	Particle characteristics	not applicable	
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9.2. Other information																								
9.2.1. Information with regard to physical hazard classes																								
Information not available																								
9.2.2. Other safety characteristics																								
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SECTION 10. Stability and reactivity																								
10.1. Reactivity																								
There are no particular risks of reaction with other substances in normal conditions of use.																								
TETRACHLOROETHYLENE																								
Decomposes at temperatures above 150°C/302°F.Decomposes if exposed to: UV rays,moisture.																								
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.																								
TETRACHLOROETHYLENE																								
Risk of explosion on contact with: alkaline metals,aluminium,alkaline hydroxides,sodium amides.May react violently with: strong bases,strong oxidising agents,alkaline earth metals,light metals,metal powders,zinc oxide.																								

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 11/18 Replaced revision:9 (Printed on: 30/10/2020)

2-METHOXY-1-METHYLETHYL ACETATE

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

10.4. Conditions to avoid

Sensitive to light, the product could decompose. Avoid exposing the product at high temperatures. Sensitive to humidity.

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

10.5. Incompatible materials

Metals. Oxidant agents. The product can affect some types of plastics. Amine.

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.

TETRACHLOROETHYLENE

May develop: hydrogen chloride, phosgenes, chlorine, ethane tetrachloride, chlorine compounds.

SECTION 11. Toxicological information

The product can have harmful effects for human health

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

TETRACHLOROETHYLENE

WORKERS: inhalation; contact with the skin.

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

2-METHOXY-1-METHYLETHYL ACETATE

WORKERS: inhalation; contact with the skin.

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

TETRACHLOROETHYLENE

Has a toxic effect on the central and peripheral nervous system, liver, kidneys and heart; the mucous membranes and the skin are irritated.

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 12/18 Replaced revision:9 (Printed on: 30/10/2020)

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).

Interactive effects

Information not available

ACUTE TOXICITY

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

TETRACHLOROETHYLENE

LD50 (Dermal):	> 1000 ml/Kg bw coniglio
LD50 (Oral):	3005 mg/kg dw Ratto femmina - OCSE 401
LC50 (Inhalation vapours):	> 3786 mg/l/4h Ratto - OCSE 403

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal):	> 5000 mg/kg Rabbit - Metodo: Linee Guida 402 per il Test dell'OECD
LD50 (Oral):	8532 mg/kg Rat - Method: OPP 81-1 Acute Oral Toxicity
LC50 (Inhalation vapours):	35,7 mg/l/4h

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

CAS: 127-18-4

Classified in group 2A (probable human carcinogen) by the International Agency for Research on Cancer (IARC).

Epidemiological studies show evidence of an association between exposure to the substance and the presence of various types of tumors: bladder cancer, non-Hodgkin's lymphomas and multiple myelomas (US EPA, 2014).

Classified as a "probable carcinogen" by the US National Toxicology Program (NTP).

Carcinogenicity

Parameter : LOEAL (C)

Route of exposure : Mouse

Effective dose : 100 ppm

Method : OECD 451

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 13/18 Replaced revision:9 (Printed on: 30/10/2020)

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

TETRACHLOROETHYLENE

Possible adverse effects on developmental toxicity

Parameter : NOAEL(C)

Route of exposure : Rat

Effective dose : 250 ppm

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Subacute oral toxicity

Parameter : LOAEL(C) (CAS : 127-18-4)

Route of exposure : Oral route

Species: mouse (female)

Effective dose : 390 mg/kg bw/day

Parameter : LOAEL(C) (CAS : 127-18-4)

Route of exposure : Oral route

Species: mouse (male)

Effective dose : 540 mg/kg bw/day

Subacute inhalative toxicity

Parameter : LOAEC (CAS : 127-18-4)

Exposure routes : Inhalation

Species: Rat

Effective dose : 200 ppm

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

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 is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish

130 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

> 500 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

> 1000 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Crustacea

> 100 mg/l Daphnia magna

Chronic NOEC for Algae / Aquatic Plants

> 1000 mg/l Pseudokirchneriella subcapitata

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 14/18 Replaced revision:9 (Printed on: 30/10/2020)
TETRACHLOROETHYLENE LC50 - for Fish5 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea8,5 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants3,64 mg/l/72h Chlamydomonas reinhardtii Chronic NOEC for Fish1,99 mg/l 10 giorni Jordanella floridae Chronic NOEC for Crustacea510 mg/l 28 giorni Daphnia magna		
12.2. Persistence and degradability		
2-METHOXY-1-METHYLETHYL ACETATE Solubility in water> 10000 mg/l Rapidly degradable		
TETRACHLOROETHYLENE Solubility in water150 mg/l Degradability: information not available		
12.3. Bioaccumulative potential		
2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water1,2 Log Kow pH = 6,8		
TETRACHLOROETHYLENE Partition coefficient: n-octanol/water2,53		
12.4. Mobility in soil		
Information not available		
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.		

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 15/18 Replaced revision:9 (Printed on: 30/10/2020)

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1897

14.2. UN proper shipping name

ADR / RID: TETRACHLOROETHYLENE
IMDG: TETRACHLOROETHYLENE
IATA: TETRACHLOROETHYLENE

14.3. Transport hazard class(es)

ADR / RID: Class: 6.1 Label: 6.1
IMDG: Class: 6.1 Label: 6.1
IATA: Class: 6.1 Label: 6.1



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous
IMDG: Marine Pollutant
IATA: NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 60	Limited Quantities: 5 L	Tunnel restriction code: (E)
	Special provision: -		
IMDG:	EMS: F-A, S-A	Limited Quantities: 5 L	
		Maximum quantity: 220 L	Packaging instructions: 663
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 655
	Passengers:		
	Special provision:	-	

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 16/18 Replaced revision:9 (Printed on: 30/10/2020)

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: E2

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 $\geq$ 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.

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 17/18 Replaced revision:9 (Printed on: 30/10/2020)

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. 3	Flammable liquid, category 3
Carc. 2	Carcinogenicity, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

Use descriptor system:

ERC	8c	Widespread use leading to inclusion into/onto article (indoor)
ERC	8f	Widespread use leading to inclusion into/onto article (outdoor)
LCS	PW	Widespread use by professional workers
PC	31	Polishes and wax blends
PROC	10	Roller application or brushing
PROC	8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities

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

	BELLINZONI S.R.L.	Revision nr. 10
	PREPARATO SPECIALE COLORATO	Dated 17/04/2023 Printed on 17/04/2023 Page n. 18/18 Replaced revision:9 (Printed on: 30/10/2020)

- 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)
- 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 / 05 / 07 / 08 / 09 / 10 / 11 / 12 / 15 / 16.