Talken (	Color Srl		Revision nr. 3
: anon (			Dated 13/10/2015
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	Safety dat	a sheet	
SECTION 1. Identification of the substa	ance/mixture a	nd of the company	/undertaking.
1.1. Product identifier.			
	0031		
	INTE RAL IN BARAT MALTO ALCHIDICO		
1.2. Relevant identified uses of the substance or mix Intended use. TINTE RAL ORIGINALI E			
1.3. Details of the supplier of the safety data sheet.			
Full address.vDistrict and Country.2	alken Color Srl ia Don Milani 15 0025 Legnano (Mi) alia		
т	el. 0331/579100		
F	ax. 0331/579372		
<b>1.4. Emergency telephone number.</b> For urgent inquiries refer to.	ENTRO ANTIVELEN	VI dI Milano-Niguarda Tel O	266101029
SECTION 2. Hazards identification.			
2.1. Classification of the substance or mixture.			
The product is classified as hazardous pursuant to the upplements). The product thus requires a safety datashee any additional information concerning the risks for health a	et that complies with t	the provisions of EC Regulat	ion 1907/2006 and subsequent amendments
lazard classification and indication:			
Flammable liquid, category 2	H225	Highly flammable I	
Serious eye damage, category 1 Skin irritation, category 2	H318 H315	Causes serious ey Causes skin irritati	5
Specific target organ toxicity - single exposure, category		May cause drowsin	
2.2. Label elements.			
azard labelling pursuant to EC Regulation 1272/2008 (CL	P) and subsequent a	mendments and supplement	te

Hazard pictograms:



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Signal words:	Danger	
Hazard statements:		
H225	Highly flammable liquid and vapour.	
H318 H315	Causes serious eye damage. Causes skin irritation.	
H336	May cause drowsiness or dizziness.	
Precautionary stateme	ents:	
P101	If medical advice is needed, have product container or label at hand.	
P102 P210	Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition	sources. No smoking
P501	Dispose of contents in different containers for steel	
Contains:	BUTANOL N-BUTYL ACETATE	
	PROPAN-2-OL	
	TOLUENE	
2.3. Other hazards.		

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

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

## 3.1. Substances.

Information not relevant.

### 3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
4-HYDROXY-4-METHYLPENTAN-2-ONE		
CAS. 123-42-2	10 - 30	Flam. Liq. 3 H226, Eye Irrit. 2 H319
EC. 204-626-7		
INDEX. 603-016-00-1		
BUTANOL		
CAS. 71-36-3	9 - 10	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
EC. 200-751-6		
INDEX. 603-004-00-6		
N-BUTYL ACETATE		
CAS. 123-86-4	5 - 9	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
EC. 204-658-1		,

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INDEX. 607-025-00-1			
Reg. no. 01-2119485493-29			
XYLENE (MIXTURE OF ISOMERS)			
CAS. 1330-20-7	5 - 9	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Note C	
EC. 215-535-7		Skin lint. 2 h515, Note C	
INDEX. 601-022-00-9			
PROPAN-2-OL			
CAS. 67-63-0	1 - 5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	
EC. 200-661-7			
INDEX. 603-117-00-0			
Reg. no. 01-2119457558-25			
ETHYLBENZENE			
CAS. 100-41-4	1 - 5	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373	
EC. 202-849-4			
INDEX. 601-023-00-4			
2-BUTOXYETHANOL			
CAS. 111-76-2	1 - 5	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315	
EC. 203-905-0		1111. 2 11010	
INDEX. 603-014-00-0			
2-METHOXY-1-METHYLETHYL ACETAT	E		
CAS. 108-65-6	0 - 0,5	Flam. Liq. 3 H226	
EC. 203-603-9			
INDEX. 607-195-00-7			
AMMIDE DI AC. GRASSI N,N-BIS (IDRO	SSIETILE)		
CAS. 68603-42-9	0 - 0,5	Eye Irrit. 2 H319, Skin Irrit. 2	
EC		H315	
INDEX			
TOLUENE			
CAS. 108-88-3	0 - 0,5	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			
INDEX. 601-021-00-3			

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.

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EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

#### 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 and 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 If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

#### 5.3. Advice for firefighters.

#### GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

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.

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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. If the product is flammable, use explosion-proof equipment. 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. 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.

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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

Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. 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:

CHE Suisse / Schweiz

Valeurs limites d'exposition aux postes de travail 2012. / Grenzwerte am Arbeitsplatz

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ESP GRB IRL ITA EU	España United Kir Éire Italia OEL EU TLV-ACG	-	INSHT - Límites de exposición profesional para agentes España 2015 EH40/2005 Workplace exposure limits Code of Practice Chemical Agent Regulations 2011 Decreto Legislativo 9 Aprile 2008, n.81 Directive 2009/161/EU; Directive 2006/15/EC; Directive 2 Directive 2000/39/EC. ACGIH 2016				2011	
4-HYDROXY	-4-METHYLPE	ENTAN-2-ONE						
Threshold L	imit Value.	Oniverting						
Туре		Country	TWA/8h		STEL/15min			
		ESP	mg/m3	ppm	mg/m3	ppm		
VLA WEL		GRB	241 241	50 50	362	75		
OEL		IRL	241	50 50	362 360	75 75		
TLV-ACGIH		IKL	238	50 50	300	75		
BUTANOL								
Threshold L	imit Value.	Country	TWA/8h		STEL/15min			
Туре		Country	mg/m3	ppm	mg/m3	ppm		
VEL		CHE	150	ppm 50	150	ppm 50		
MAK		CHE	150	50	150	50		
VLA		ESP	61	20	154	50	SKIN.	
WEL		GRB	01	20	154	50	SKIN.	
OEL		IRL		20	134	50	SKIN.	
TLV-ACGIH			61	20				
N-BUTYL AC	CETATE							
Threshold L	imit Value.	Country	T\A/A/Qh		OTEL (45 min			
Туре		Country	TWA/8h		STEL/15min			
		0115	mg/m3	ppm	mg/m3	ppm		
VEL		CHE	480	100	960	200		
MAK		CHE	480	100	960	200		
VLA		ESP	724	150	965	200		
WEL		GRB	724	150	966	200		
OEL		IRL	710	150	950	200		
TLV-ACGIH			713	150	950	200		
	XTURE OF IS imit Value.							
XYLENE (MI		OMERS) Country	TWA/8h		STEL/15min			
XYLENE (MI Threshold L Type		Country	mg/m3	ppm	mg/m3	ppm		
XYLENE (MI Threshold L Type VLA		Country	mg/m3 221	50	mg/m3 442	100	SKIN.	
XYLENE (MI Threshold L Type VLA WEL		Country ESP GRB	mg/m3 221 220	50 50	mg/m3 442 441	100 100		
XYLENE (MI Threshold L Type VLA WEL OEL		Country	mg/m3 221	50	mg/m3 442	100	SKIN.	
XYLENE (MI Threshold L Type VLA WEL		Country ESP GRB	mg/m3 221 220	50 50	mg/m3 442 441	100 100		

COUGGI + TINTE RAL IN BARATTOLO         TLV-ACGIH       434       100       650       550         PROPAN-2-OL       Treshold Limit Value.       Type       Country       TWA/8h       STEL/16         Type       Country       TWA/8h       STEL/16         Country       TWA/8h       TETHY         Threshold Limit Value.       Type       Country       TWA/8h       STEL/16         Threshold Limit Value.       Type       Country       TWA/8h       STEL/16         Threshold Limit Value.       Type       Country       TWA/8h       STEL/16         Type       Country       TWA/8h       STEL/16         Type       Country       TWA/8h       STEL/16         Type       Country       TWA/8h       STEL/16         Type       Country       TWA/8h	Dated 13/10/2015
PROPAN-2-0L         Threshold Limit Value.         Country         TWA/8h         STEL/16           Type         Country         TWA/8h         STEL/16           vLA         ESP         500         200         1000           WEL         GRB         999         400         1250           OEL         IRL         200         983           ETHYLBENZENE         492         200         983           TIV-ACGIH         492         200         983           VLA         ESP         441         100         884           Type         Country         TWA/8h         STEL/16           Treshold Limit Value.         GRB         441         100         884           WEL         GRB         441         100         884           VLA         ESP         441         100         884           VEL         GRB         441         100         884           VLA         ESP         442         100         884           TLV-ACGIH         EU         442         100         884           VEL         Country         TWA/8h         STEL/16           Type         Country         TWA/8	Printed on 26/05/2017 Page n. 7/17
PROPAN-2-0L Threshold Limit Value.         Country         TWA/8h         STEL/16 mg/m3         ppm         mg/m3           VLA         ESP         500         200         1000         000           WEL         GRB         999         400         1250         000           OEL         IRL         200         983         000         000         000           TLV-ACGIH         492         200         983         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000 <td< th=""><th>Page n. 7/17</th></td<>	Page n. 7/17
Threshold Limit Value.         Country         TWA/8h         STEL/12           Type         Country         TWA/8h         STEL/12           mg/m3         ppm         mg/m3           VLA         ESP         500         200         1000           WEL         GRB         999         400         1250           OEL         IRL         200         983         1250           TLV-ACGIH         492         200         983         1250           Threshold Limit Value.         TWA/8h         STEL/12         100         884           Type         Country         TWA/8h         STEL/12         100         884           VLA         ESP         441         100         884         100         100         884           Col         IRL         442         100         884         100         100         884           TLV         ITA         442         100         884         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 <t< td=""><td>150</td></t<>	150
Type         Country         TWA/8h         STEL/16           ng/m3         ppm         mg/m3           VLA         ESP         500         200         1000           WEL         GRB         999         400         1250           OEL         IRL         200         983           TLV-ACGIH         492         200         983           ETHYLBENZENE	
ng/m3         ppm         ng/m3           VLA         ESP         500         200         1000           WEL         GRB         999         400         1250           OEL         IRL         200         983           TLV-ACGIH         492         200         983           ETHYLBENZENE         ng/m3         ppm         ng/m3           Type         Country         TWA/8h         STEL/16           Type         GRB         441         100         652           OEL         IRL         442         100         884           VLA         ESP         441         100         652           OEL         IRL         442         100         884           OEL         IRL         442         100         884           OEL         EU         442         100         884           OEL         EU         87         20         20           ZBUTOXYETHANOL         Transhold Limit Value.         Transhold Limit Value.         STEL/16         9         10         98           VLA         ESP         98         20         246         0         246         0         246	Smin
VLA       ESP       500       200       1000         NEL       GRB       999       400       1250         DEL       IRL       200       983         TLV-ACGIH       492       200       983         ETHYLBENZENE       ng/m3       ppm       ng/m3         Threshold Limit Value.       Country       TWA/8h       STEL/1E         Threshold Limit Value.       GRB       441       100       884         VLA       ESP       441       100       884         VEL       GRB       441       100       884         DEL       IRL       442       100       884         TLV       ITA       442       100       884         DEL       EU       442       100       884         TLV-ACGIH       EQ       10       98       98         VEL       CHE       49       10       98         VEL       CHE       49       10       98         VAA       ESP       98       20       246         DEL       IRL       98       20       246         DEL       IRL       98       20       246	ppm
WEL       GRB       999       400       1250         OEL       IRL       200       983         TLV-ACGIH       492       200       983         ETHYLBENZENE	400
OEL       IRL       200       983         TLV-ACGIH       492       200       983         ETHYLBENZENE       Img/m3       ppm       mg/m3         Type       Country       TWA/8h       STEL/16         VLA       ESP       441       100       884         WEL       GRB       441       100       884         OCL       IRL       442       100       884         OCL       EU       97       20       245         VEL       CHE       49       10       98         VLA       ESP       98       20       246         TV       ITA       98       20       246         OCL       IRL       98       20       246         OCL       EU </td <td>500</td>	500
TLV-ACGIH     492     200     983       ETHYLBENZENE Type     Country     TWA/8h     STEL/16 mg/m3     ppm     mg/m3       VLA     ESP     441     100     884       WEL     GRB     441     100     884       OEL     IRL     442     100     884       OEL     IRL     442     100     884       OEL     EU     87     20     88       VEL     CHE     49     10     98       VAA     ESP     98     20     246       OEL     IRL     98     20     246       OEL     IRL     98     20     246       OEL     EU     98     20     246       OEL     EU     98     20     246       OEL     EU     98     20     246       OEL     E	400 SKIN.
THYLBENZENE         Threshold Limit Value.       Country       TWA/8h       STEL/15         Pipe       Country       mg/m3       ppm       mg/m3         VLA       ESP       441       100       884         WEL       GRB       441       100       884         D2L       IRL       442       100       884         TLV       ITA       442       100       884         D2L       EU       487       20       884         PSP       STEL/16       mg/m3       ppm       mg/m3         VEL       Country       TWA/8h       STEL/16       98       20       245         VEL       GRB       123       25       246       246       246         D2L       IRL       98       20       246       246       246       246	400
Threshold Limit Value.         Country         TWA/8h         STEL/16           Type         Country         TWA/8h         STEL/16           mg/m3         ppm         mg/m3           VLA         ESP         441         100         884           WEL         GRB         441         100         884           DEL         IRL         442         100         884           DEL         IRL         442         100         884           DEL         EU         97         20         20           25UTOXYETHANOL         mg/m3         ppm         mg/m3           VEL         Country         TWA/8h         STEL/16           Type         Country         TWA/8h         20         245           VEL         GRB         123         25         246           DEL         IRL         98         20         246	+00
Threshold Limit Value.         Country         TWA/8h         STEL/16           Type         Country         TWA/8h         STEL/16           mg/m3         ppm         mg/m3           VLA         ESP         441         100         884           WEL         GRB         441         100         884           DEL         IRL         442         100         884           DEL         IRL         442         100         884           DEL         EU         97         20         20           25UTOXYETHANOL         mg/m3         ppm         mg/m3           VEL         Country         TWA/8h         STEL/16           Type         Country         TWA/8h         20         245           VEL         GRB         123         25         246           DEL         IRL         98         20         246	
mg/m3         ppm         mg/m3           ///A         ESP         441         100         884           WEL         GRB         441         100         552           DEL         IRL         442         100         884           TLV         ITA         442         100         884           DEL         EU         442         100         884           TLV-ACGIH         87         20         20           PSP         Country         TWA/8h         STEL/15           MGK         CHE         49         10         98           //LA         ESP         98         20         246           DEL         IRL         98         20         246           DEL         EU         98         20         246           DEL         EU         97         20         30 <t< td=""><td></td></t<>	
VLA         ESP         441         100         884           WEL         GRB         441         100         552           DEL         IRL         442         100         884           TLV         ITA         442         100         884           DEL         EU         442         100         884           TLV-ACGIH         87         20         20           2-BUTOXYETHANOL         mg/m3         ppm         mg/m3           YEL         Country         TWA/8h         STEL/16           MK         CHE         49         10         98           VLA         ESP         98         20         246           DEL         IRL         98         20         246           DEL         EU         98         20         246           DEL         EU         98         20         246 <td></td>	
WEL       GRB       441       100       552         DEL       IRL       442       100       884         TLV       ITA       442       100       884         DEL       EU       442       100       884         DEL       BT       87       20       20         PSDE       Img/m3       ppm       mg/m3         VEL       Country       TWA/8h       STEL/16         MAK       CHE       49       10       98         VEL       GRB       123       25       246         DEL       IRL       98       20       246         DEL       IRL       98       20       246         DEL       EU       98       20       246         DEL       EU       98       20       246         DEL       GRB       275       50       50         VLA	ppm
DEL       IRL       442       100       884         TLV       ITA       442       100       884         DEL       EU       442       100       884         DEL       EU       442       100       884         TLV-ACGIH       87       20       87       20         CBUTOXYETHANOL       mg/m3       pm       mg/m3         Threshold Limit Value.       mg/m3       ppm       mg/m3         VEL       CHE       49       10       98         VAK       CHE       49       10       98         VLA       ESP       98       20       245         VEL       GRB       123       25       246         DEL       IRL       98       20       246         DEL       EU       97       20       20         CHETHOXY-1-METHYL ACETATE       mg/m3       pm       mg/m3         MAA       ESP       275       50       550	200 SKIN.
LV       ITA       442       100       884         DEL       EU       442       100       884         DEL       EU       442       100       884         TLV-ACGIH       87       20       20         CBUTOXYETHANOL       mg/m3       pp       10       98         Threshold Limit Value.       mg/m3       pp       mg/m3         YEL       CHE       49       10       98         VAK       CHE       49       10       98         VLA       ESP       98       20       245         NEL       GRB       123       25       246         DEL       ITA       98       20       246         DEL       IRL       98       20       246         DEL       EU       97       20       20         VLA       ESP       275       50       550 <td< td=""><td>125 SKIN.</td></td<>	125 SKIN.
DEL       EU       442       100       884         TLV-ACGIH       87       20       884         2-BUTOXYETHANOL       mg/m3       pm       10         Threshold Limit Value.       mg/m3       ppm       mg/m3         YEL       ChE       49       10       98         VAK       CHE       49       10       98         VAL       ESP       98       20       245         NEL       GRB       123       25       246         DEL       IRL       98       20       246         DEL       EU       97       20       20         CHETHOXY-1-METHYLETHYL ACETATE       mg/m3       pm       mg/m3         MAA       ESP       275       50       550         NEL       GRB       274       50       548         DEL       IRL       275       50       550         D	200 SKIN.
TLV-ACGIH       87       20         2-BUTOXYETHANOL Threshold Limit Value.       mg/m3       ppm       mg/m3         Type       Country       TWA/8h       STEL/15         mg/m3       ppm       mg/m3         VEL       CHE       49       10       98         MAK       CHE       49       10       98         VLA       ESP       98       20       245         WEL       GRB       123       25       246         OEL       IRL       98       20       246         OEL       EU       97       20       20         2-METHOXY-1-METHYL ACETATE       Treshold Limit Value.       mg/m3       mg/m3         Type       Country       TWA/8h       STEL/15         MUA       ESP       275       50       550         WEL       GRB       274       50       548         OEL       IRL	200 SKIN.
Country         TWA/8h         STEL/18           Type         Country         TWA/8h         STEL/18           rype         Country         TWA/8h         STEL/18           rype         CHE         49         10         98           VAK         CHE         49         10         98           VAK         CHE         49         10         98           VLA         ESP         98         20         245           NEL         GRB         123         25         246           DEL         IRL         98         20         246           DEL         IRL         98         20         246           DEL         IRL         98         20         246           DEL         EU         98         20         246           DEL         EU         97         20         20           Threshold Limit Value.         mg/m3         ppm           Type         Country         TWA/8h         STEL/18           Pare         Country         mg/m3         ppm         mg/m3           VLA         ESP         275         50         550 <t< td=""><td>200 SKIN.</td></t<>	200 SKIN.
Threshold Limit Value. Type         Country         TWA/8h         STEL/15           mg/m3         ppm         mg/m3           VEL         CHE         49         10         98           MAK         CHE         49         10         98           MAK         CHE         49         10         98           VLA         ESP         98         20         245           WEL         GRB         123         25         246           OEL         IRL         98         20         246           OEL         IRL         98         20         246           OEL         EU         98         20         246           Preshold Limit Value.         mg/m3         ppm         ng/m3           VLA         ESP         275         50         550           WEL         GRB         274         50         548           OEL         IRL         275         50         550	
Threshold Limit Value. Type         Country         TWA/8h         STEL/15           mg/m3         ppm         mg/m3           VEL         CHE         49         10         98           MAK         CHE         49         10         98           MAK         CHE         49         10         98           VLA         ESP         98         20         245           WEL         GRB         123         25         246           OEL         IRL         98         20         246           OEL         IRL         98         20         246           OEL         EU         98         20         246           Preshold Limit Value.         mg/m3         ppm         ng/m3           VLA         ESP         275         50         550           WEL         GRB         274         50         548           OEL         IRL         275         50         550	
Type         Country         TWA/8h         STEL/15           mg/m3         ppm         mg/m3           VEL         CHE         49         10         98           MAK         CHE         49         10         98           VLA         ESP         98         20         245           WEL         GRB         123         25         246           OEL         IRL         98         20         246           OEL         IRL         98         20         246           OEL         IRL         98         20         246           OEL         EU         98         20         246           OEL         EU         98         20         246           OEL         EU         97         20         20           Threshold Limit Value.           Type         Country         TWA/8h         STEL/15           mg/m3         ppm         mg/m3         98           VLA         ESP         275         50         550           WEL         GRB         274         50         550           OEL         IRL         275         50 <td></td>	
mg/m3         ppm         mg/m3           VEL         CHE         49         10         98           MAK         CHE         49         10         98           VLA         ESP         98         20         245           WEL         GRB         123         25         246           OEL         IRL         98         20         246           OEL         IRL         98         20         246           OEL         EU         97         20         246           TLV-ACGIH         STEL/16         mg/m3         pm           Type         Country         TWA/8h         STEL/16           MAR         ESP         275         50         560           WEL         GRB         274         50         560           WEL         GRB         274         50         550           MEL         IRL         275         50         550           D	5min
MAK       CHE       49       10       98         VLA       ESP       98       20       245         WEL       GRB       123       25       246         OEL       IRL       98       20       246         OEL       IRL       98       20       246         OEL       EU       97       20       20         Z-METHOXY-1-METHYLE ACETATE         Type       Country       TWA/8h       STEL/16         mg/m3       ppm       mg/m3         VLA       ESP       275       50       550         WEL       GRB       274       50       550         OEL       IRL       275       50       550         OEL       EU       275       50       550         OEL       EU       275       50       550         OEL       EU       275       50       550	ppm
VLA       ESP       98       20       245         WEL       GRB       123       25       246         DEL       IRL       98       20       246         DEL       IRL       98       20       246         DEL       ITA       98       20       246         DEL       EU       97       20       20         COUNTY <thethylethylethylethylethylethylethyleth< td=""><td>20 SKIN.</td></thethylethylethylethylethylethylethyleth<>	20 SKIN.
WEL       GRB       123       25       246         OEL       IRL       98       20       246         TLV       ITA       98       20       246         OEL       EU       98       20       246         OEL       EU       98       20       246         TLV-ACGIH       97       20       246         Type       Country       TWA/8h       STEL/16         Type       Country       TWA/8h       STEL/16         VLA       ESP       275       50       550         WEL       GRB       274       50       548         OEL       IRL       275       50       550         TLV       ITA       275       50       550         OEL       EU       275       50       550	20 SKIN.
WEL       GRB       123       25       246         OEL       IRL       98       20       246         TLV       ITA       98       20       246         OEL       EU       98       20       246         OEL       EU       98       20       246         TLV-ACGIH       97       20       246         Threshold Limit Value.         Type       Country       TWA/8h       STEL/16         VLA       ESP       275       50       550         WEL       GRB       274       50       548         OEL       IRL       275       50       550         WEL       GRB       274       50       550         OEL       IRL       275       50       550         OEL       EU       275       50       550	50 SKIN.
OEL       IRL       98       20       246         TLV       ITA       98       20       246         OEL       EU       98       20       246         OEL       EU       98       20       246         TLV-ACGIH       97       20       20       246         ZAMETHOXY-1-METHYLETHYL ACETATE         Threshold Limit Value.         Type       Country       TWA/8h       STEL/18         MIA       ESP       275       50       50         WEL       GRB       274       50       548         OEL       IRL       275       50       550         TLV       ITA       275       50       550         OEL       EU       275       50       550	50 SKIN.
TLV       ITA       98       20       246         OEL       EU       98       20       246         TLV-ACGIH       97       20       20       20         2-METHOXY-1-METHYLETHYL ACETATE         Threshold Limit Value.         Type       Country       TWA/8h       STEL/15         mg/m3       ppm       mg/m3         VLA       ESP       275       50       550         WEL       GRB       274       50       550         OEL       IRL       275       50       550         OLL       EU       275       50       550         TLV       ITA       275       50       550         OEL       EU       275       50       550         OEL       EU       275       50       550	50 SKIN.
OELEU9820246TLV-ACGIH9720 <b>2-METHOXY-1-METHYLETHYL ACETATE</b> Threshold Limit Value.TypeCountryTWA/8hSTEL/16mg/m3ppmmg/m3VLAESP27550VELGRB27450548OELIRL27550550TLVITA27550550OELEU27550550TLVITA27550550TOLUENE Threshold Limit Value.	50 SKIN.
TLV-ACGIH       97       20         2-METHOXY-1-METHYLEACETATE         Threshold Limit Value.         Type       Country       TWA/8h       STEL/15         mg/m3       ppm       mg/m3         VLA       ESP       275       50       550         WEL       GRB       274       50       548         OEL       IRL       275       50       550         TLV       ITA       275       50       550         OEL       EU       275       50       550         TOLUENE	
2-METHOXY-1-METHYLETHYL ACETATE         Threshold Limit Value.       Country       TWA/8h       STEL/15         mg/m3       ppm       mg/m3         vLA       ESP       275       50       550         WEL       GRB       274       50       548         DEL       IRL       275       50       550         TLV       ITA       275       50       550         DEL       EU       275       50       550         TOLUENE       Threshold Limit Value.       STEL/15       STEL/15	50 SKIN.
Threshold Limit Value. Type         Country         TWA/8h         STEL/15           mg/m3         ppm         mg/m3           VLA         ESP         275         50         550           WEL         GRB         274         50         548           OEL         IRL         275         50         550           TLV         ITA         275         50         550           OEL         EU         275         50         550           TLV         ITA         275         50         550           OEL         EU         275         50         550           OEL         EU         275         50         550	
Threshold Limit Value. Type         Country         TWA/8h         STEL/15           mg/m3         ppm         mg/m3           VLA         ESP         275         50         550           WEL         GRB         274         50         548           OEL         IRL         275         50         550           TLV         ITA         275         50         550           OEL         EU         275         50         550           TLV         ITA         275         50         550           OEL         EU         275         50         550           DEL         EU         275         50         550	
mg/m3         ppm         mg/m3           VLA         ESP         275         50         550           WEL         GRB         274         50         548           OEL         IRL         275         50         550           TLV         ITA         275         50         550           OEL         EU         275         50         550           OEL         EU         275         50         550           OEL         EU         275         50         550           TOLUENE         Threshold Limit Value.         Threshold Limi	
VLA         ESP         275         50         550           WEL         GRB         274         50         548           OEL         IRL         275         50         550           TLV         ITA         275         50         550           OEL         EU         275         50         550           TOLUENE         Threshold Limit Value.         Threshold Limit Value.         The state of the	
WEL         GRB         274         50         548           DEL         IRL         275         50         550           TLV         ITA         275         50         550           DEL         EU         275         50         550	
OEL         IRL         275         50         550           TLV         ITA         275         50         550           OEL         EU         275         50         550           TOLUENE Threshold Limit Value.	100 SKIN.
TLV ITA 275 50 550 OEL EU 275 50 550 TOLUENE Threshold Limit Value.	100
OEL EU 275 50 550 TOLUENE Threshold Limit Value.	100 SKIN.
TOLUENE Threshold Limit Value.	100 SKIN.
Threshold Limit Value.	100 SKIN.
Threshold Limit Value.	
	5min
mg/m3 ppm mg/m3	ppm

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VLA	ESP	192	50	384	100	SKI	۷.
WEL	GRB	191	50	384	100	SKI	۷.
OEL	IRL	192	50	384	100	SKI	٨.
TLV	ITA	192	50			SKI	٨.
OEL	EU	192	50	384	100	SKI	۷.
TLV-ACGIH		75,4	20				

#### Legend:

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

#### 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. 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 (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 Directive 89/686/EEC 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 a hood visor or protective visor combined with airtight 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.

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.

Appearance
Colour
Odour
Odour threshold.

liquid as showed in color folder characteristic of solvent Not available.

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pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation Rate Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Lower explosive limit. Upper explosive limit. Upper explosive limit. Vapour pressure. Vapour density Relative density. Solubility Partition coefficient: n-octanol/water Auto-ignition temperature. Decomposition temperature. Viscosity Explosive properties	Not available. Not available. > 35 °C. Not available. < 23 °C. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. 1,083 Kg/I solubile in acetone e/o diluente nitro Not available. Not available.
Oxidising properties	Not available.

#### 9.2. Other information.

Solid content.	49,34 %	
VOC (Directive 2010/75/EC) :	50,48 % - 546,80 g/l	itre.
VOC (volatile carbon) :	Not available.	

## **SECTION 10. Stability and reactivity.**

#### 10.1. Reactivity.

The product can decompose and/or react violently.

1-METHOXY-2-PROPANOL ACETATE: stable but with the air it may slowly develop peroxides that explode with an increase in temperature. TOLUENE: breaks down in sunlight.

BUTANOL: attacks various types of plastic.

2-BUTOXYETHANOL: decomposes in the presence of heat.

4-HYDROXY-4-METHYLPENTAN-2-ONE: decomposes at tempratures above 90°C/194°F.

#### 10.2. Chemical stability.

See previous paragraph.

#### 10.3. Possibility of hazardous reactions.

See paragraph 10.1.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

1-METHOXY-2-PROPANOL ACETATE: may react violently with oxidising agents and strong acids and alkaline metals.

TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).

ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form explosive mixtures with the air.

BUTANOL: reacts violently developing heat with: aluminium, strong oxidising agents, strong reducing agents, hydrochloric acid. Forms explosive mixtures

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with the air.

2-BUTOXYETHANOL: can react dangerously with: aluminium, oxidising agents. Forms peroxide with air. 4-HYDROXY-4-METHYLPENTAN-2-ONE: risk of explosion on contact with the air and sources of heat. Can react dangerously with: alkaline metals, amines, oxidising agents, acids.

#### 10.4. Conditions to avoid.

As the product decomposes even at ambient temperature, it must be stored and used at a controlled temperature. Avoid violent blows.

1-METHOXY-2-PROPANOL ACETATE: store in an inert atmosphere, sheletered from moisture because it hydrolises easily. BUTANOL: avoid exposure to sources of heat and naked flames. 2-BUTOXYETHANOL: avoid exposure to sources of heat and naked flames. 4-HYDROXY-4-METHYLPENTAN-2-ONE: avoid exposure to light, sources of heat and naked flames.

#### 10.5. Incompatible materials.

1-METHOXY-2-PROPANOL ACETATE: oxidising agents, strong acids and alkaline metals.

#### 10.6. Hazardous decomposition products.

ETHYLBENZENE: methane, styrene, hydrogen, ethane. 2-BUTOXYETHANOL: hydrogen.

## **SECTION 11. Toxicological information.**

### 11.1. Information on toxicological effects.

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.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

1-METHOXY-2-PROPANOL ACETATE: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

TOLUENE: it has a toxic effect on the central and peripheral nervous system (with encephalopathies and polyneuritis). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

4-HYDROXY-4-METHYLPENTAN-2-ONE: its acute toxicity is manifested by eye irritation, nose and throat in man at 100 ppm (476 mg/kg) and by pulmonary disorders at 400 ppm. No chronic effects have been reported in man.

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral).3523 mg/kg Rat LD50 (Dermal).4350 mg/kg Rabbit LC50 (Inhalation).26 mg/l/4h Rat

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-METHOXY-1-METHYLETHYL ACETATE D50 (Oral).8530 mg/kg Rat D50 (Dermal).> 5000 mg/kg Rat OLUENE D50 (Oral).5580 mg/kg Rat D50 (Dermal).12124 mg/kg Rabbit C50 (Inhalation).28,1 mg/l/4h Rat THYLBENZENE D50 (Oral).3500 mg/kg Rat D50 (Dermal).15354 mg/kg Rabbit C50 (Inhalation).17,2 mg/l/4h Rat	
D50 (Oral).790 mg/kg Rat D50 (Dermal).3400 mg/kg Rabbit C50 (Inhalation).8000 ppm/4h Rat P-BUTOXYETHANOL D50 (Oral).615 mg/kg Rat D50 (Dermal).405 mg/kg Rabbit C50 (Inhalation).2,2 mg/l/4h Rat	
I-HYDROXY-4-METHYLPENTAN-2-ONE .D50 (Oral).4000 mg/kg Rat	
PROPAN-2-OL .D50 (Oral).4710 mg/kg Rat .D50 (Dermal).12800 mg/kg Rat .C50 (Inhalation).72,6 mg/l/4h Rat	
N-BUTYL ACETATE .D50 (Oral).> 6400 mg/kg Rat .D50 (Dermal).> 5000 mg/kg Rabbit .C50 (Inhalation).21,1 mg/l/4h Rat	
SECTION 12. Ecological information.	
<b>12.1. Toxicity.</b> nformation not available.	

XYLENE (MIXTURE OF ISOMERS) Solubility in water.

Biodegradability: Information not available.

mg/l 100 - 1000

> 10000 mg/l

2-METHOXY-1-METHYLETHYL ACETATE Solubility in water.

Rapidly biodegradable.

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TOLUENE		
Solubility in water.	mg/l 100 - 1000	
Rapidly biodegradable.		
ETHYLBENZENE		
Solubility in water.	mg/l 1000 - 10000	
Rapidly biodegradable.		
BUTANOL		
Solubility in water.	mg/l 1000 - 10000	
Rapidly biodegradable.		
2-BUTOXYETHANOL		
Solubility in water.	mg/l 1000 - 10000	
Rapidly biodegradable.		
4-HYDROXY-4-		
METHYLPENTAN-2-ONE	~~~// 1000 _ 10000	
Solubility in water. Rapidly biodegradable.	mg/l 1000 - 10000	
Rapidly biodegradable.		
PROPAN-2-OL		
Rapidly biodegradable.		
N-BUTYL ACETATE		
Solubility in water.	mg/l 1000 - 10000	
12.3. Bioaccumulative potential.		
XYLENE (MIXTURE OF ISOMERS)		
Partition coefficient: n-	3,12	
octanol/water. BCF.	25,9	
2-METHOXY-1-		
METHYLETHYL ACETATE Partition coefficient: n-	1,2	
octanol/water.		
TOLUENE		
Partition coefficient: n-	2,73	
octanol/water. BCF.	90	
	30	

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12.5. Results of PBT and vPvB as	sessment.	
Partition coefficient: soil/water.	< 3	
N-BUTYL ACETATE		
Partition coefficient: soil/water.	0,388	
BUTANOL		
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water.	2,73	
12.4. Mobility in soil.		
BCF.	15,3	
Partition coefficient: n- octanol/water.	2,3	
N-BUTYL ACETATE		
Partition coefficient: n- octanol/water.	0,05	
PROPAN-2-OL		
4-HYDROXY-4- METHYLPENTAN-2-ONE Partition coefficient: n- octanol/water.	-0,09	
Partition coefficient: n- octanol/water.	0,81	
2-BUTOXYETHANOL		
BCF.	3,16	
Partition coefficient: n- octanol/water.	1	
BUTANOL		
Partition coefficient: n- octanol/water.	3,6	
ETHYLBENZENE		

12.6. Other adverse effects.

Information not available.

# **SECTION 13.** Disposal considerations.

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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.

ADR / RID, IMDG,	1263
IATA:	

#### 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,	Ш
IATA:	

#### 14.5. Environmental hazards.

ADR / RID:	NO
IMDG:	NO
IATA:	NO

#### 14.6. Special precautions for user.

ADR / RID:

HIN - Kemler: 33

Limited

Tunnel

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IMDG: IATA:	Special Provision: 640C EMS: F-E, <u>S-E</u> Cargo: Pass.: Special Instructions: rding to Annex II of Marpol and the IBC Code.	Quantities: 5 L Limited Quantities: 5 L Maximum quantity: 60 L Maximum quantity: 5 L A3, A72, A192	Page n. 15/17 restriction code: (D/E) Packaging instructions: 364 Packaging instructions: 353
nformation not relevant. SECTION 15. Regula	atory information.		
-	vironmental regulations/legislation specific for the	substance or mixture.	
Seveso category.	None.		
Restrictions relating to the proc	duct or contained substances pursuant to Annex XVII t	o EC Regulation 1907/2006.	
Product. Point.	3 - 40		
Contained substance.			
Point.	48 TOLUENE		
	(Art. 59 REACH).		
Substances in Candidate List (	·		
None.			
None. Substances subject to authoris			
None. Substances subject to authoris None.			
None. <u>Substances subject to authoris</u> None. <u>Substances subject to exporta</u>	sarion (Annex XIV REACH).		
None. <u>Substances subject to authoris</u> None. <u>Substances subject to exportat</u> None.	sarion (Annex XIV REACH). tion reporting pursuant to (EC) Reg. 649/2012:		
None. Substances subject to authoris None. Substances subject to exportat None. Substances subject to the Rott	sarion (Annex XIV REACH). tion reporting pursuant to (EC) Reg. 649/2012:		
None. <u>Substances subject to authoris</u> None. <u>Substances subject to exportat</u> None. <u>Substances subject to the Rott</u> None.	sarion (Annex XIV REACH). tion reporting pursuant to (EC) Reg. 649/2012: terdam Convention:		
Substances in Candidate List ( None. Substances subject to authoris None. Substances subject to exportat None. Substances subject to the Rott None. Substances subject to the Stoc None.	sarion (Annex XIV REACH). tion reporting pursuant to (EC) Reg. 649/2012: terdam Convention:		

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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.

No chemical safety assessment has been processed for the mixture and the substances it contains.

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

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

ADR: European Agreement concerning the carriage of Dangerous goods by Road

CAS NUMBER: Chemical Abstract Service Number CE50: Effective concentration (required to induce a 50% effect)

CE NUMBER: Identifier in ESIS (European archive of existing substances)

CLP: EC Regulation 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 NUMBER: Identifier in Annex VI of CLP

### Revision nr. 3 Talken Color Srl Dated 13/10/2015 Printed on 26/05/2017 **C0031 - TINTE RAL IN BARATTOLO** Page n. 17/17 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: EC Regulation 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 STEL: Short-term exposure limit TWA: Time-weighted average 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 (EU) 1907/2006 (REACH) of the European Parliament 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament 4. Regulation (EU) 2015/830 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 - 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 ECHA website 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.

Changes to previous review: The following sections were modified:

02 / 03 / 09 / 10 / 11 / 12 / 14 / 15.