MaxMeyer	CROMOLOG Managertics C	Y ITALIA S.p.A	MAX Revision nr.1 Dated 29/5/2015 Printed on 1/7/2015	El
	Saf	ety data shee	t rage n. 1717	
SECTION 1. Identific	ation of the substance/mix	xture and of the company	y/undertaking	
1.1. Product identifier				
Code: Product name	MAX0204 Manoantica	53S a GEL antichizzante		
1.2. Relevant identified us	ses of the substance or mixture	e and uses advised against		
Identified Uses	Industrial	Professional	Consumer	
	-		-	
1.3. Details of the supplie	r of the safety data sheet			
Name Full address District and Country	CROMOL Sede Legal 55016 Por IT Tel. 199 Fax 199	OGY ITALIA S.p.A. e:Via IV Novembre 4 rcari ALY 0119955 (+39)05832424 0119977	LU	
e-mail address of the com responsible for the Safety	petent person Data Sheet info-sds@c	cromology.it		
Product distribution by	CROMOL	OGY ITALIA S.p.A.		
1.4. Emergency telephone	e number			
For urgent inquiries refer	to Numeri tele Centro Ant Pavia); Cer Ca` Granda Ospedali R (CAV Osp (CAV Polie (CAV Polie (CAV Polie 68593726 ( di Foggia C Centro Ant Napoli). Per ulterior	efonici dei principali Centri iveleni di Pavia 0382 24444 ntro Antiveleni di Milano 02 a - Milano); Centro Antivelez iuniti - Bergamo); Centro A edale Careggi - Firenze); Ce clinico Gemelli - Roma); Ce clinico Umberto I - Roma); C (CAV Osp. Pediatrico Bamb 0881 732326 (Azienda Ospec iveleni di Napoli 081 74728	Antiveleni italiani (attivi 24/24 ore): (CAV IRCCS Fondazione Maugeri 66101029 (CAV Ospedale Niguard ni di Bergamo 800 883300 (CAV ntiveleni di Firenze 055 7947819 ntro Antiveleni di Roma 06 3054343 ntro Antiveleni di Roma 06 4997800 Centro Antiveleni di Roma 06 ino Gesù- Roma); Centro Antiveleni daliero Universitaria di Foggia); 70 (CAV Ospedale Cardarelli -	a 3 00 i
	(+39)05832	2424 from Monday to Friday	y 9:30-12:30 14:00-17:30.	

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### Manoantica GEL antichizzante

#### **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 EC Regulation 1907/2006 and subsequent amendments.

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

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments

Hazard classification and indication:

Flam. Liq. 3 H226 STOT SE 3 H336 Aquatic Chronid B412 EUH066

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Warning symbols: None

R phrases: 10-52/53-66-67

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

2.2. Label elements

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

Hazard pictograms:



		CI	ROMOLOGY ITALIA S	S.p.A.	MAX E Revision nr.1 Dated 29/5/2015			
A	waxmeyer	Ma	noantica GEL antichiz	Printed on 1/7/2015 Page n. 3 / 17				
SECTI	ON 2. Haza	rds identifi	cation / >>					
P101If medical advice is needed, have product container or label at hand.P102Keep out of reach of children.P103Read label before use.P261Avoid breathing dust/fume/gas/mist/vapours/spray.P271Use only outdoors or in a well-ventilated area.P273Avoid release to the environment.P403+P233Store in a well-ventilated place. Keep container tightly closed.P501Dispose of contents/container in compliance with local regulation.Contains:Hydrocarbons, C9-C11, n-alkanes, isoalkanes, <2% aromatic								
2.3. Oth	er hazards							
Informa	tion not availa	able						
SECTION	3. Composition/in	formation on ing	redients					
3.1. Substa	nces							
Informa 3.2. Mixtu	tion not releva	ant						
Contains:	ion	Cone %	Classification 67/542/FFC	Closeification 1272	2/2008 (CT D)			
Iuentificat	1011	Conc. 70	Classification 07/546/EEC		(2006 (CL1))			
Hydrocart EC Reg. no.	ons, C9-C11, n-al 919-857-5 01-2119463258-3	kanes, isoalkanes, 24 - 28 33-XXXX	, < <b>2% aromatic</b> R10, R66, R67, Xn R65	Flam. Liq. 3 H226, 4	Asp. Tox. 1 H304, STOT SE 3 H336			
<b>Hydrocart</b> EC Reg. no.	ons, C9, aromatic 918-668-5 01-2119455851-3	<b>:s</b> 1 - 2 35-XXXX	R10, R66, R67, N R51/53, Xi R37, Xn R65	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411				
ALLUMIN CAS EC Reg. no.	<b>NO DIIDROGEN</b> 13939-25-8 237-714-9 01-2119970565-2	0 <b>TRIFOSFATO</b> 0,9 - 2 28-XXXX	Xi R36	Eye Irrit. 2 H319				
<b>2-BUTAN</b> CAS EC INDEX Reg. no.	DNE OXIME 96-29-7 202-496-6 616-014-00-0 01-2119539477-2	0,4 - 0,7 28-XXXX	Xi R41, Xi R43, Xn R21, Carc. Cat. 3 R40	Carc. 2 H351, Acute Skin Sens. 1 H317	e Tox. 4 H312, Eye Dam. 1 H318,			
<b>1-METHO</b> CAS EC INDEX Reg. no.	XY-2-PROPANO 107-98-2 203-539-1 603-064-00-3 01-2119457435-5	DL 0,4 - 0,5 35-XXXX	R10, R67	Flam. Liq. 3 H226, 5	STOT SE 3 H336			
XYLENE CAS EC INDEX Reg. no.	1330-20-7 215-535-7 601-022-00-9 01-2119488216-3	0,3 - 0,4 32-XXXX	R10, Xi R36/37/38, Xn R20/21, Xn R48/20, Xn R65, Note C	Flam. Liq. 3 H226, <i>J</i> Asp. Tox. 1 H304, S Skin Irrit. 2 H315, S	Acute Tox. 4 H312, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, STOT SE 3 H335, Nota C			
ZINC OXI 80,34% CAS EC INDEX Reg. no.	DE metallic element 1314-13-2 215-222-5 030-013-00-7 01-2119463881-3	0,3 - 0,4 32-XXXX	N R50/53	Aquatic Acute 1 H4	00 M=1, Aquatic Chronic 1 H410 M=1			

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	CROMOLOGY ITAI	MAX EN Revision nr.1 Dated 29/5/2015							
ar maxmeyer	Manoantica GEL ant	Printed on 1/7/2015 Page n. 4 / 17							
SECTION 3. Composi	tion/information on ingredients	/>>							
ETHYLBENZENE CAS 100-41-4 0,00 - EC 202-849-4 INDEX 601-023-00-4 Reg. no. 01-2119489370-35-XX2	ETHYLBENZENE         FR11, Xn R20, Xn R48/20, Xn R65         Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304,           CAS         202-849-4         STOT RE 2 H373           INDEX         601-023-00-4         112119489370-35-XXXX								
2-METHOXY-1-METHYLETHYL ACETATE         CAS       108-65-6       0,00 - 0,1       R10       Flam. Liq. 3 H226         EC       203-603-9       INDEX       607-195-00-7         Reg. no.       01-2119475791-29-XXXX									
Xn= HARMFUL,N= DANGEROUS	S FOR THE ENVIRONMENT,Xi= IRRITANT,F= HIGHL	Y FLAMMABLE							
Note: Upper limit is not in	cluded into the range								
The full wording of the Ri	isk (R) and hazard (H) phrases is given in s	section 16 of the sheet							
SECTION 4. First aid	measures								
4.1. Description of first air EYES: Remove contact eyelids fully. If problem p SKIN: Remove contar immediately. Wash contar INHALATION: Remove advice/attention immediat INGESTION: Get medic explicitly authorised by a	<ul> <li>4.1. Description of first aid measures</li> <li>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.</li> <li>SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.</li> <li>INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.</li> <li>INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.</li> </ul>								
4.2. Most important symp For symptoms and effects	toms and effects, both acute and delayed caused by the contained substances, see ch	1ap. 11.							
4.3. Indication of any imm Information not available	ediate medical attention and special treatm	ient needed							
SECTION 5. Firefight	ing measures								
5.1. Extinguishing media SUITABLE EXTINGUISHING EQUIPMENT Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak. UNSUITABLE EXTINGUISHING EQUIPMENT Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.									
5.2. Special hazards arisin HAZARDS CAUSED BY Excess pressure may form	5.2. Special hazards arising from the substance or mixture HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.								
5.3. Advice for firefighter GENERAL INFORMATI Use jets of water to co potentially hazardous for draining into the sewer sy	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								



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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

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

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. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

#### **SECTION 7. Handling and storage**

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a 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 EN

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SECTION 8. Ex	posure o	controls/	persona	al protectio	)n				
8.1. Control param	neters								
Regulatory Refere United Kingdom Éire DEL EU FLV-ACGIH	nces:		E ey R C D A	H40/2005 W sposure limi egulations (a ode of Pract irective 200 irective 200 CGIH 2012	Vorkplace exp ts for use with as amended). ice Chemical 9/161/EU; Di 0/39/EC.	oosure limits h the Contro Agent Regu irective 2006	. Containing t l of Substance lations 2011. 5/15/EC; Direc	he list of wo es Hazardou ctive 2004/3	orkplace s to Health 7/EC;
				ZINC PI	HOSPHATE				
Threshold Limit	Value								
Туре	Country	TWA/8h mg/m3	ppm	STEL/ mg/m3	15min				
ACGIH-TLV		6							
	Н	vdrocarb	ons. C9	-C11. n-alk	anes. isoalka	nes. <2% a	romatic		
Chreshold Limit	Value –	J		,					
Туре	Country	TWA/8h mg/m3	ppm	STEL/ mg/m3	15min				
TLV (CEFIC)		1200	197						
Health - Derived	no-effect	level - Di	NEL / D	MEL					
	Effec	cts on con	sumers			Effects on	workers		
Route of exposure Dral	Acute	local Act	ute systemic	c Chronic local	Chronic system 125	nicAcute local	Acute systemic	Chronic local	Chronic systemic
nhalation					900 mg/mc				871 mg/mc
Skin					125				208

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Manoantica GEL antichizzante Page n. 7 / 17 **SECTION 8. Exposure controls/personal protection** ... / >> ZINC OXIDE Threshold Limit Value STEL/15min Country TWA/8h Type mg/m3 ppm mg/m3 ppm 2 OEL IRL RESP **TLV-ACGIH** 2 10 **Predicted no-effect concentration - PNEC** 35.6 mg/kg Normal value for the terrestrial compartment 117.7 mg/mc Normal value in fresh water Normal value in marine water 6.1 mg/m3 117.8 mg/kg Normal value for fresh water sediment 56 5 mg/kg Normal value for marine water sediment 52 Normal value of STP microorganisms mg/mc Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Acute local Acute systemic Chronic local Chronic systemicAcute local Acute systemic Chronic local Chronic systemic Route of exposure VND 0,83 VND VND Oral mg/kg p.c. VND VND 5 Inhalation 2.5 mg/mc mg/mc VND 83 VND 83 Skin mg/kg p.c. mg/kg p.c. Hydrocarbons, C9, aromatics Threshold Limit Value Country TWA/8h Type STEL/15min ppm mg/m3 ppm mg/m3 100 19 TLV (ACGIH02) Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Acute local Acute systemic Chronic local Chronic systemicAcute local Acute systemic Chronic local Chronic systemic Route of exposure 11 Oral mg/kg 32 150 Inhalation mg/mc mg/mc Skin 11 25 mg/kg mg/kg **ALUMINIUM POWDER (STABILIZED) Threshold Limit Value** Country TWA/8h Type STEL/15min ppm mg/m3 mg/m3 ppm 4 WEL UK 1 OEL IRL RESP 1 0,9 **TLV-ACGIH** 

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SECTION 8. Ex	xposure	contr	ols/persona	al protection	n	/ >>				
				XY	LENE					
Threshold Limit	Value									
Туре	Country	/ TWA mg/m3	A/8h 5 ppm	STEL/1 mg/m3	5min					
WEL	UK	220	50	441	100					
OEL	IRL	221	50	442	100	SKIN				
OEL	EU	221	50	442	100	SKIN				
TLV-ACGIH		434	100	651	150					
Predicted no-effe	ect conce	ntratio	on - PNEC							
Normal value for	the terres	trial co	mpartment				2.31	mg/kg		
Normal value in fi	resh wate	r					0.327	mg/l		
Normal value in n	narine wa	ter					0.327	mg/l		
Normal value for	fresh wat	er sedi	ment				12.46	mg/kg		
Normal value for	water, int	ermitte	ent release				0.327	mg/l		
Normal value for	marine w	ater se	diment				12.46	mg/kg		
Normal value of S	STP micro	oorgani	isms				6.58	mg/l		
Health - Derived	no-effec	t level	- DNEL / D	MEL						
	Effe	ects on	consumers			Effects or	n workers			
Route of exposure Oral	Acute	e local	Acute systemic	c Chronic local	Chronic s	ystemicAcute local	Acute systemic	Chronic local	Chronic systemic	
					mg/l	200			87	
Inhalation					14,8 mg/mc	289 mg/kg			// mg/kg	
Skin					108				180	
SKIII					mg/kg				mg/kg	
				т					6 6	
Threshold Limit	Value			<b>.</b>	ALC					
	Country		\/8h	STFI /1	5min					
турс	Country	mg/m3	ppm	mg/m3	ppm					
WEL	UK	1								
OEL	IRL	0,8								
TLV-ACGIH		2								
			2-METHO	XY-1-METH	IYLETH	IYL ACETAT	Έ			
Threshold Limit	Value									
Туре	Country	/ TWA mg/m3	A/8h ppm	STEL/1 mg/m3	5min <sub>ppm</sub>					
WEL	UK	274	50	548	100					
OEL	IRL	275	50	550	100	SKIN				
OEL	EU	275	50	550	100	SKIN				
				ETHYL	BENZEI	NE				
Threshold Limit	Value									
Туре	Country	/ TWA mg/m3	A/8h	STEL/1 mg/m3	5min					
WEL	UK	441	100	552	125	SKIN				
OEL	IRL	442	100	884	200	SKIN				
OEL	EU	442	100	884	200	SKIN				
TLV-ACGIH	20	87	20							

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MAX **CROMOLOGY ITALIA S.p.A.** Revision nr.1 MaxMeyer Dated 29/5/2015 Printed on 1/7/2015 Manoantica GEL antichizzante Page n. 9 / 17 **SECTION 8.** Exposure controls/personal protection />> **1-METHOXY-2-PROPANOL** Threshold Limit Value Country TWA/8h Type STEL/15min ppm mg/m3 mg/m3 ppm WEL 375 100 560 150 UK SKIN 375 100 568 150 OEL IRL 375 100 568 150 OEL EU SKIN 369 100 553 150 **TLV-ACGIH 2-BUTANONE OXIME** Threshold Limit Value Type Country TWA/8h STEL/15min ppm ppm mg/m3 mg/m3 10 3 33 10 OEL IRL

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(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration. Personal protection equipment must comply with the rules in force indicated below.

#### HAND PROTECTION

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitryl or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves` limit depends on the duration of exposure.

#### EYE PROTECTION

Wear protective airtight goggles (ref. standard EN 166).

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN ISO 20344). Wash body with soap and water after removing overalls.

#### **RESPIRATORY PROTECTION**

If the threshold value (if available) for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an B or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 14387).

The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce worker exposure in the absence of technical measures. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.



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

#### 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	Gei
Colour	Various colours
Odour	Like hydrocarbons
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	41 °C
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	0,3 kPa 20°C
Vapour density	>1
Relative density	1,350 kg/l 20°C
Solubility	Negligible in water. Dispersible in hydrocarbons solvents.
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Gel
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information VOC (Directive 2004/42/EC) :

g/litre

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

10.1. Reactivity

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

500.00

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

1-METHOXY-2-PROPANOL: absorbs and disolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

2-BUTANONE OXIME: decomposes under the effect of heat.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

XYLENE (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.

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

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SECTION 10. Stability and reactivity ..../

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids. 2-BUTANONE OXIME: thermal decomposition can have an explosive course. It reacts violently with strong oxidising agents and acids. Above the flash point (69°C), explosive mixtures can form with air.

10.4. Conditions to avoid

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

1-METHOXY-2-PROPANOL ACETATE: store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

1-METHOXY-2-PROPANOL: avoid exposure to the air.

10.5. Incompatible materials

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

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

2-BUTANONE OXIME: oxidising substances and strong acids.

10.6. Hazardous decomposition products

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

ETHYLBENZENE: methane, styrene, hydrogen, ethane.

2-BUTANONE OXIME: nitrogen oxides, carbon oxides.

#### **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 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.

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure. This product contains sensitizing substance/s and may cause allergic reactions.

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.

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.

1-METHOXY-2-PROPANOL: 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.

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ar maxmeyer	Manoant	ica GEL antic	chizzante	Printed on 1/7/2015 Page n. 12 / 17	
SECTION 11. Toxicol	ogical information	n/>>			
Hydrocarbons, LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	C9-C11, > >	n-alkanes, 5.000 mg/kg Rat 5.000 mg/kg Rabbit 5.000 mg/m3(8h/hs) Ra	isoalkanes, at	<2%	aromatic
Hydrocarbons, C9, aroma LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	tics > >	-3.000 mg/kg bw rat OF -3.160 mg/kg bw rabbit -6.193 mg/m3 rat OECI	ECD 401 OECD 402 D 403		
XYLENE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	5 > 6	5.627 mg/kg Rat 5.000 ml/kg Rabbit 5.700 ppm/4h Rat			
2-METHOXY-1-METHY LD50 (Oral) LD50 (Dermal)	LETHYL ACETAT 8 >	E 8.530 mg/kg Rat -5.000 mg/kg Rat			
ETHYLBENZENE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	3 1 1	3.500 mg/kg Rat 5.354 mg/kg Rabbit 7,2 mg/l/4h Rat			
1-METHOXY-2-PROPA LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	NOL 5 1 5	5.300 mg/kg Rat 3.000 mg/kg Rabbit 54,6 mg/l/4h Rat			
2-BUTANONE OXIME LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	2 > 2	2.400 mg/kg Rat >1.000 mg/kg Rabbit 20 mg/l/4h Rat			

#### **SECTION 12. Ecological information**

Non aromatic mineral water spirits tends to be distributed exclusively in the air where it is photodegradable. The small amount that remains in the water tends to deposit at the bottom and is biodegraded; it is thus not bioaccumulated by fish. In the soil the substance remains absorbed and is unable to reach the subterranean layers.

12.1. Toxicity

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

Hydrocarbons,	C9-C11,	n-alkanes,	isoalkanes,	<2%	aromatic
LC50 - for Fish	>1.000	) mg/l Oncorhynchus	mykiss		
EC50 - for Crustacea	>1.000	) mg/l Daphina magn	a		
EC50 - for Algae / Aquatic Plants	>1.000	) mg/l Pseudokirchne	riella subcapitata	a	



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**SECTION 12. Ecological information** ..../>>

ZINC OXIDE					
LC50 - for Fish	1,1 mg/l Oncorhynchus mykiss				
EC50 - for Crustacea	1,7 mg/l Daphnia magna				
EC50 - for Algae / Aquatic Plants	0,14 mg/l				
Chronic NOEC for Fish	0,53 000000000				
Chronic NOEC for Algae / Aquatic Plants	0,024 000000000				
Hydrocarbons, C9, aromatics					
LC50 - for Fish	9,2 mg/l Oncorhynchus mykiss OECD 203				
EC50 - for Crustacea	3,2 mg/l Daphnia magna OECD 202				
EC50 - for Algae / Aquatic Plants	2,9 mg/l Pseudokirchneriella subcapitata OECD 201				
XYLENE					
LC50 - for Fish	2.6 mg/l Oncorhynchus mykiss				
Chronic NOEC for Fish	>1.3 mg/l Oncorhyncus mykiss				
Chronic NOEC for Crustacea	1 57 mg/l Danhia Magna				
Chronic NOEC for Algae / Aquatic Plants	0.44  mg/l Depind Wagna				
entoine NOLE for Argae / Aquate Flants	0,44 mg/1 1 seudoknemienena subcapitata				
12.2. Persistence and degradability					
ZINC OXIDE					
Solubility in water	2,9 000000000				
NOT rapidly biodegradable					
12.3. Bioaccumulative potential					
ZINC OXIDE					
BCF	>175 000000000				
VVI ENE					
XYLENE DGE	25.0				
BCF	25,9				
12.4. Mobility in soil					
Information not available					
12.5. Results of PBT and vPvB assessment					
On the basis of available data, the product d	loes not contain any PBT or vPvB in percentage greater than 0,1%.				
12.6. Other adverse effects					
Information not available					
SECTION 13. Disposal consideration	S				
13.1. Waste treatment methods					
Reuse when possible Product residues	should be considered special bazardous waste. The bazard 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	autorised waste management min, in compliance with hauonai and local				
Avoid littering. Do not contaminate soil set	wers and waterways				
Waste transportation may be subject to AD	R restrictions				
CONTAMINATED PACKAGING					

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

#### **SECTION 14. Transport information**

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:			
ADR/RID Class:	3	UN:	1263
Packing Group:	III		
Label:	3		
Nr. Kemler:	30		
Limited Quantity	5 L		
Tunnel restriction code	D/E		
Proper Shipping Name:	Paint o	or paint related m	naterial

The product, if packaged in packages of less than 450 litres, is not subject to ADR regulations as stated in 2.2.3.1.5.

Carriage by sea (shipping):			
IMO Class:	3	UN:	1263
Packing Group:	Ш		
Label:	3		
EMS:	F-E,	S-E	
Marine Pollutant	NO		
Proper Shipping Name:	Paint o	r paint related m	naterial

The product, if packaged in packages of less than 30 litres, is not subject to obligations relating to marking, labelling and package testing in accordance with 2.3.2.5 of the IMDG CODE.

Transport by air:				
IATA:	3	UN:	1263	
Packing Group:	III			
Label:	3			
Cargo:				
Packaging instructions:	366		Maximum quantity:	220 L
Pass.:				
Packaging instructions:	355		Maximum quantity:	60 L
Proper Shipping Name:	Paint	or paint rela	ted material	

#### **SECTION 15. Regulatory information**

. .

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Seveso category	
6	
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation       1907/2006         Product       3-40	
Substances in Candidate List (Art. 59 REACH)	
None	
Substances subject to authorisarion (Annex XIV REACH) None	
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**SECTION 15. Regulatory information** ..../>>

Substances subject to exportation reporting pursuant to (EC) Reg. 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. <u>VOC (Directive 2004/42/EC)</u>:

One-pack performance coatings.

VOC given in g/litre of product in a ready-to-use condition :

Limit value:	500 (2010)
VOC of product :	500,00

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
Carc. 2	Carcinogenicity, 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
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
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.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

Carc.Cat. 3	Carcinogenicity, category 3
R10	FLAMMABLE.
R11	HIGHLY FLAMMABLE.
R20	HARMFUL BY INHALATION.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R21	HARMFUL IN CONTACT WITH SKIN.
R36	IRRITATING TO EYES.
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R37	IRRITATING TO RESPIRATORY SYSTEM.
R40	LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.
R41	RISK OF SERIOUS DAMAGE TO EYES.
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT.
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC
D50/50	EN VIKUNMEN I. HADMENI TO AQUATIC ODCANISMS MAY CALISE LONG TERM ADVERSE EFFECTS IN THE AQUATIC
K52/53	HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC
D/5	EN VIKUNMEN I. HADMEHL, MAY CALISE LUNC DAMACE IE SWALLOWED
R05	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
K66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

#### 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
- 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).



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

#### GENERAL BIBLIOGRAPHY

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- 10. Handling Chemical Safety
- 11. Niosh Registry of Toxic Effects of Chemical Substances
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- 13. Patty Industrial Hygiene and Toxicology
- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 15. 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.

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