Ambr	o-Sol s.r.l.		Revision nr. 5					
	Dated 31/01/2017							
M201 - Oily di		Printed on 01/02/2017						
	M201 - Oily dielectric deoxidizer							
Safety data sheet								
SECTION 1. Identification of the sub	stance/mixture and of	the company/unde	rtaking.					
 1.1. Product identifier. Code: Product name. Chemical name and synonym. 1.2. Relevant identified uses of the substance or m Intended use. 	M201 Oily dielectric deoxidizer Protective oil nixture and uses advised agai aser for electrical contacts	nst.						
Identified Uses	Industrial.	Professional.	Consumer.					
Industrial use		-	-					
Professional use	· -	×	-					
1.3. Details of the supplier of the safety data sheet Name. Full address. District and Country.	Ambro-Sol s.r.l. Via per Pavone del Mella n.2 25020 Cigole (BS) Italia Tel. +39 030 9959674	21						
	Fax. +39 030 959265							
e-mail address of the competent person.								
responsible for the Safety Data Sheet.	quality@ambro-sol.com							
1.4. Emergency telephone number. For urgent inquiries refer to. CENTRO ANTIVELENI Ospedale Niguarda tel: +39 02 66101029								
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.

Hazard classification and indication:	H222	Extremely flammable aerosol.
Aerosol, category 1	H229	Pressurised container: may burst if heated.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.

2.2. Label elements.

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

Hazard pictograms:



Ambro-Sol s.r.l.	Revision nr. 5 Dated 31/01/2017
M201 - Oily dielectric deoxidizer	Printed on 01/02/2017

Page n. 2/17

Hazard statements:

Extremely flammable aerosol. Pressurised container: may burst if heated. Causes serious eye irritation. May cause drowsiness or disziness. Repeated exposure may equal skip durages or creaking
Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P102 P210 P211 P251 P264 P280 P304+P340 P410+P412	Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear eye protection / face protection. IF INHALED: remove person to fresh air and keep comfortable for breathing. Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.
Contains:	Benzene, mono-C10-13-alkyl derivs., distn. residues Hydrocarbons, C11-C12, isoalkanes, <2% aromatics PROPAN-2-OL ACETONE
Statements on the aspiration toxicity classification were not included in the label elements, based on action 1.2.2 of Approx 1	

section 1.3.3. of Annex I to CLP.

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:

The full wording of hazard (H) phrases is given in section 16 of the sheet. Identification.

on 16 of the sheet.	Classification 1272/2008
	(CLP).
31 ≤ x < 35	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
19≤x< 23	Flam. Gas 1 H220, Note U

Α	Revision nr. 5 Dated 31/01/2017		
M201 - Oi	oxidizer	Printed on 01/02/2017	
	,		Page n. 3/17
EC. 200-827-9			
INDEX. 601-003-00-5			
Reg. no. 01-2119486944-21-XXXX			
PROPAN-2-OL			
CAS. 67-63-0	15 ≤ x < 19	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-XXXX			
Benzene, mono-C10-13-alkyl derivs., distn. residues			
CAS. 84961-70-6	11 ≤ x < 15	Asp. Tox. 1 H304	
EC. 284-660-7			
INDEX			
Reg. no. 01-2119485843-26-XXXX			
BUTANE			
CAS. 106-97-8	9≤x< 11	Flam. Gas 1 H220, Note C U	
EC. 203-448-7			
INDEX. 601-004-00-0			
Reg. no. 01-2119474691-32-XXXX			
Hydrocarbons, C11-C12, isoalkanes, <2%			
aromatics CAS	5≤x< 7	Flam. Liq. 3 H226, Asp. Tox.	
EC. 918-167-1		1 H304	
INDEX			
Reg. no. 01-2119472146-39-XXXX			
CAS. 141-78-6	1 ≤ x < 3	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336,	
EC. 205-500-4		EUH066	
INDEX. 607-022-00-5			
Reg. no. 01-2119475103-46-XXXX			
BUTYLGLYCOL ACETATE			
CAS. 112-07-2	0,5 ≤ x < 1	Acute Tox. 4 H312, Acute Tox. 4 H332	
EC. 203-933-3		IUX. 4 NOOZ	
INDEX. 607-038-00-2			
Reg. no. 01-2119475112-47-XXXX			

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 30,99 %

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

Ambro-Sol s.r.l.	Revision nr. 5
	Dated 31/01/2017
M201 - Oily dielectric deoxidizer	Printed on 01/02/2017
	Page n. 4/17

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown. 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 The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. 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.

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions.

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up.

Use inert absorbent material to soak up leaked product. 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.

Revision nr. 5 Dated 31/01/2017

M201 - Oily dielectric deoxidizer

Printed on 01/02/2017

Page n. 5/17

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities.

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C/122°F, away from any combustion sources.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2016

ACETONE

Threshold Limit Value.	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	1200	500	2400	1000
MAK	DEU	1200	500	2400	1000
VLA	ESP	1210	500		
VLEP	FRA	1210	500	2420	1000
WEL	GBR	1210	500	3620	1500
VLEP	ITA	1210	500		
NDS	POL	600		1800	
VLE	PRT	1210	500		
OEL	EU	1210	500		

		Ambro-Sol	s.r.l.				on nr. 5 31/01/2017	
	ric deoxid	lizer			Printed on 01/02/2017 Page n. 6/17			
TLV-ACGIH		1187	500	1781	750			
Predicted no-effect concentratio		1107	500	1701	750			
Normal value in fresh water Normal value in marine water Normal value for fresh water seo Normal value for marine water s Normal value for water, intermitt Normal value of STP microorgan Normal value for the terrestrial of Health - Derived no-effect	diment ediment ent release nisms compartment	DMEL		10,6 1,06 30,4 3,04 21 29,5 0,112		mg/l mg/l mg/kg mg/kg mg/l mg/l		
	Effects on				Effects on workers			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral.			VND	systemic 62 mg/kg		systemic		systemic
Inhalation.			VND	200 mg/m3	VND	2,420 mg/m3	VND	1,210 mg/m3
Skin.			VND	62 mg/kg	-	,	VND	186 mg/kg
				gg				
PROPANE								
Threshold Limit Value.				0751 /··-				
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	1800	1000	7200	4000			
МАК	DEU	1800	1000	7200	4000			
NDS	POL	1800						
TLV-ACGIH			1000					
Predicted no-effect concentratio	n - PNEC.							
Normal value in fresh water				NPI				
Normal value in marine water				NPI				
Normal value for fresh water see	diment			NPI				
Normal value for marine water s	ediment			NPI				
Normal value for water, intermitt	ent release			NPI				
Normal value of STP microorgar	nisms			NPI				
Normal value for the food chain	(secondary poison	ing)		NPI				
Normal value for the terrestrial c	compartment			NPI				
Normal value for the atmosphere	e			NPI				
PROPAN-2-OL								
Threshold Limit Value.	Country	TWA/8h		STEL/15min				
1 342	Country		nom		nom			
AGW	DEU	mg/m3 500	ppm 200	mg/m3 1000	ppm 400			
	DEU							
MAK		500	200	1000	400			
	ESP	500	200	1000	400			
VLEP	FRA	000	100	980	400			
WEL	GBR	999	400	1250	500			
NDS	POL	900		1200				
TLV-ACGIH	D. 17 -	492	200	983	400			
Predicted no-effect concentratio	n - PNEC.							
Normal value in fresh water Normal value for fresh water seo Normal value for water, intermitt Normal value of STP microorgar	ent release			140,9 552 140,9 2251 160		mg/l mg/kg mg/l mg/l mg/kg		

Revision nr. 5 Dated 31/01/2017

M201 - Oily dielectric deoxidizer

Printed on 01/02/2017

Page n. 7/17

Normal value for the terrestrial co	mpartment			28		ma	(0	
Normal value for the terrestrial compartment 28 mg/kg Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers.				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral.	VND	VND	VND	systemic 26 mg/kg	VND	systemic VND	VND	systemic VND
Inhalation.	VND	VND	VND	89 mg/m3	VND	VND	VND	500 mg/m3
Skin.	VND	VND	VND	319 mg/kg	VND	VND	VND	888 mg/kg
Benzene, mono-C10-13-alk	vl derive distr	residues						
Threshold Limit Value.	yr derivs., distri	. residues						
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		57				INHAL.		
Predicted no-effect concentration	- PNEC.							
Normal value in fresh water				0,000075		mg/		
Normal value in marine water Normal value for fresh water sedi	mont			0,0075 1761		mg/ mg/		
Normal value for marine water se	diment			1761		mg/	kġ	
Normal value of STP microorgani Health - Derived no-effect lo		MFI		2		mg/		
	Effects on				Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
		•		systemic		systemic		systemic
Oral.		NPI		230 µg/kg bw/day				
Inhalation. Skin.	NPI NPI	NPI NPI	NPI NPI	1,6 mg/m³ 2,2 mg/kg	NPI NPI	NPI NPI	NPI NPI	3,2 mg/m³ 4,3 mg/kg
SKIII.	INFI	NET	INFI	bw/d		INFI	INFI	bw/d
BUTANE								
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	2400	1000	9600	4000			
MAK	DEU	2400	1000	9600	4000			
VLA	ESP	2400	800	3000	4000			
		1000						
VLEP	FRA	1900	800					
WEL	GBR	1450	600	1810	750			
NDS	POL	1900		3000				
TLV-ACGIH				2377	1000			
Predicted no-effect concentration	- PNEC.							
Normal value in fresh water				NPI				
Normal value in marine water				NPI				
Normal value for fresh water sedi	ment			NPI				
Normal value for marine water se	diment			NPI				
Health - Derived no-effect le		MEL						
South Southoan to ender	Effects on				Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
-		-		systemic		systemic		systemic
Oral.		NPI		NPI		NPI		NPI
Inhalation.		NPI		NPI		NPI		NPI
Skin.		NPI		NPI		NPI		NPI
ETHYL ACETATE								

M201 - Oily dielectric deoxidizer

Revision nr. 5

Dated 31/01/2017

Printed on 01/02/2017 Page n. 8/17

Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	1500	400	3000	800			
MAK	DEU	1500	400	3000	800			
VLA	ESP	1460	400					
VLEP	FRA	1400	400					
WEL	GBR		200		400			
NDS	POL	200		600				
TLV-ACGIH		1441	400					
Predicted no-effect concentration	- PNEC.							
Normal value in fresh water Normal value in marine water Normal value for fresh water sedi Normal value for marine water se Normal value of STP microorgani Normal value for the terrestrial co	diment sms mpartment			0,26 0,026 1,25 0,125 650 0,24		mg/l mg/l mg/kg mg/kg mg/l mg/kg	9	
Health - Derived no-effect le	evel - DNEL / D Effects on	MEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	4,5 mg/kg		Systemic		Systemic
Inhalation. Skin.	734 mg/kg	734 mg/kg	367 mg/m3 VND	367 mg/m3 37 mg/kg	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3 63 mg/kg
BUTYLGLYCOL ACETATE								
Threshold Limit Value.	Country	TWA/8h		STEL/15min				
Туре	Country	mg/m3	nom		nnm			
AGW	DEU	130	ppm 20	mg/m3 520	ppm 80	SKIN.		
MAK	DEU	66	10	132	20	SKIN.		
VLA	ESP	133	20	333	50	SKIN.		
VLEP	FRA	66,5	10	333	50	SKIN.		
WEL	GBR	133	20	332	50 50	SKIN.		
VLEP	ITA	133	20	333	50	SKIN.		
NDS	POL	100	20	300	50	SKIN.		
VLE	POL	133	20	300	50	SKIN.		
OEL								
	EU	133	20	333	50	SKIN.		
TLV-ACGIH	DNEC	131	20					
Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water sedi Normal value for marine water se Normal value of STP microorgani Normal value for the food chain (s Normal value for the terrestrial co	ment diment sms secondary poisonii mpartment			304 30,4 2,03 203 90 60 415		µg/l µg/l mg/kg mg/l mg/kg µg/kg	/d	
Health - Derived no-effect le	evel - DNEL / D Effects on	MEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral.		36 mg/kg bw/d		systemic 8,6 mg/kg		systemic		systemic
Inhalation.		NPI	NPI	bw/d	333 mg/m3	NPI	NPI	
Skin.	NPI	72 mg/kg bw/d	NPI	102 mg/kg	NPI	120 mg/kg	NPI	169 mg/kg
		g, kg bw/d		bw/d		bw/d		bw/d

Ambro-Sol s.r.l.	Revision nr. 5
	Dated 31/01/2017

M201 - Oily dielectric deoxidizer

Printed on 01/02/2017

Page n. 9/17

Legend:

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

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. 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 None required.

SKIN PROTECTION

Wear category I 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.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

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.

Decomposition temperature.Not available.Viscosity11 ÷ 24 cst (principio attivo)Explosive propertiesnot applicableOxidising propertiesnot applicable		Vapour pressure. Not available.	Lower explosive limit. Not available.	Upper inflammability limit. Not available.		Evaporation Rate Not available.	0 0	Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Lower 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. Not available. Not available. Not available. Not available. Not available. Not available. a 20°C 0,70 ÷ 0,74 g/ml insoluble in water Not available. Not available. Not available. Not available. 11 ÷ 24 cst (principio atti not applicable
Flash point.< 0 °C.Evaporation RateNot available.Flammability of solids and gasesNot available.Lower inflammability limit.Not available.Upper inflammability limit.Not available.Lower explosive limit.Not available.Upper explosive limit.Not available.Upper explosive limit.Not available.Vapour pressure.Not available.Vapour densityNot available.Relative density.a 20°C 0,70 ÷ 0,74 g/mlSolubilityinsoluble in waterPartition coefficient: n-octanol/waterNot available.	Flash point.< 0 °C.Evaporation RateNot available.Flammability of solids and gasesNot available.Lower inflammability limit.Not available.Upper inflammability limit.Not available.Lower explosive limit.Not available.Upper explosive limit.Not available.Vapour pressure.Not available.	Flash point.< 0 °C.Evaporation RateNot available.Flammability of solids and gasesNot available.Lower inflammability limit.Not available.Upper inflammability limit.Not available.Lower explosive limit.Not available.	Flash point.< 0 °C.Evaporation RateNot available.Flammability of solids and gasesNot available.Lower inflammability limit.Not available.	Flash point.< 0 °C.Evaporation RateNot available.Flammability of solids and gasesNot available.	Flash point.< 0 °C.Evaporation RateNot available.	0 0		01	i i o i a i anabioi
Boiling range.Not available.Flash point.< 0 °C.	Boiling range.Not available.Flash point.< 0 °C.	Boiling range.Not available.Flash point.< 0 °C.	Boiling range.Not available.Flash point.< 0 °C.	Boiling range.Not available.Flash point.< 0 °C.	Boiling range.Not available.Flash point.< 0 °C.	Boiling range. Not available.		Melting point / freezing point.	
Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Initial boiling point.Not available.Boiling range.Not available.	Initial boiling point. Not available.		i i o i a i anabioi
pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	pH. Not available. Melting point / freezing point. Not available. Initial boiling point. Not available. Boiling range. Not available. Flash point. < 0 °C.	pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	pH. Not available. Melting point / freezing point. Not available. Initial boiling point. Not available. Boiling range. Not available. Flash point. < 0 °C.	pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.	pH. Not available. Melting point / freezing point. Not available. Initial boiling point. Not available.		
Odour threshold.Not available.pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Odour threshold.Not available.pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Odour threshold. Not available. pH. Not available. Melting point / freezing point. Not available. Initial boiling point. Not available. Boiling range. Not available. Flash point. < 0 °C.	Odour threshold.Not available.pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Odour threshold.Not available.pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Odour threshold.Not available.pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.Flash point.< 0 °C.	Odour threshold.Not available.pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.Boiling range.Not available.	Odour threshold.Not available.pH.Not available.Melting point / freezing point.Not available.Initial boiling point.Not available.	Colour	
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Ambro-Sol s.r.l.	Revision nr. 5
AIIIDIO-301 5.1.1.	
	Dated 31/01/2017
M201 - Oily dielectric deoxidizer	Printed on 01/02/2017
MZUT - Ony dielectric deoxidizer	
	Page n. 10/17

9.2. Other information.

Molecular weight.	55,448			
Total solids (250°C / 482°F)	0,82 %			
VOC (Directive 2010/75/EC) :	93,85 %	-	680,41	g/litre.
VOC (volatile carbon) :	64,52 %	-	467,78	g/litre.
Boiling point (solvent)	56 ° C			
Solvent	acetone			
Flash point (solvent)	- 17 °C			

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

ACETONE

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents.Develops flammable gas on contact with: nitrosyl perchlorate.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

10.4. Conditions to avoid.

Avoid overheating.

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

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

10.5. Incompatible materials.

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

ACETONE

Incompatible with: acids,oxidising substances.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, aluminium, nitrates, chlorosulphuric acid. Incompatible materials: plastic materials.

Ambro-Sol s.r.l.	Revision nr. 5 Dated 31/01/2017	
M201 - Oily dielectric deoxidizer	Printed on 01/02/2017 Page n. 11/17	
10.6. Hazardous decomposition products.		
CETONE lay develop: ketenes,irritant substances.		
SECTION 11. Toxicological information.		
11.1. Information on toxicological effects.		
CUTE TOXICITY.		
C50 (Inhalation - vapours) of the mixture:Not classified (no significant component). C50 (Inhalation - mists / powders) of the mixture:Not classified (no significant component). D50 (Oral) of the mixture:Not classified (no significant component). D50 (Dermal) of the mixture:Not classified (no significant component).		
ROPAN-2-OL D50 (Oral).4710 mg/kg Rat D50 (Dermal).12800 mg/kg Rat C50 (Inhalation).72,6 mg/l/4h Rat		
THYL ACETATE D50 (Oral).11,3 rat D50 (Dermal).20000 rabbit		
UTYLGLYCOL ACETATE D50 (Oral).1880 rat D50 (Dermal).1500 rabbit C50 (Inhalation).400 rat		
enzene, mono-C10-13-alkyl derivs., distn. residues D50 (Oral).> 2000 mg/kg D50 (Dermal).> 2000 mg/kg		
lydrocarbons, C11-C12, isoalkanes, <2% aromatics D50 (Oral).10000 rat D50 (Dermal).2000 rat C50 (Inhalation).7,12 mg/l/4h rat		
KIN CORROSION / IRRITATION. loes not meet the classification criteria for this hazard class. ERIOUS EYE DAMAGE / IRRITATION. auses serious eye irritation. ESPIRATORY OR SKIN SENSITISATION. loes not meet the classification criteria for this hazard class.		
ERM CELL MUTAGENICITY. loes not meet the classification criteria for this hazard class. ARCINOGENICITY. loes not meet the classification criteria for this hazard class.		
IEPRODUCTIVE TOXICITY. loes not meet the classification criteria for this hazard class. TOT - SINGLE EXPOSURE. lay cause drowsiness or dizziness.		
TOT - REPEATED EXPOSURE. loes not meet the classification criteria for this hazard class. SPIRATION HAZARD. oxic for inhalation.		
SECTION 12. Ecological information.		

	Ambro-Sol s.r.l.	Revision nr. 5 Dated 31/01/2017
N/2	01 - Oily dielectric deoxidizer	Printed on 01/02/2017
IVIZ	or - Ony dielectric deoxidizer	Page n. 12/17
12.1. Toxicity.		
ETHYL ACETATE		
LC50 - for Fish.	230 mg/l/96h	
EC50 - for Algae / Aquatic Plants.	100 mg/l/72h	
Chronic NOEC for Fish.	9,65 mg/l 32 days	
Chronic NOEC for Crustacea.	2,4 mg/l 21 days	
BUTYLGLYCOL ACETATE		
LC50 - for Fish.	30 mg/l/96h	
EC50 - for Crustacea.	37 mg/l/48h	
EC50 - for Algae / Aquatic Plants.	1045 mg/l/72h	
EC10 for Crustacea.	30,4 mg/l 7 days	
Benzene, mono-C10-13-alkyl		
derivs., distn. residues EC50 - for Crustacea.	1,4 mg/l/48h	
Chronic NOEC for	7,5 21 days	
Crustacea.		
Chronic NOEC for Algae / Aquatic Plants.	2,08 mg/l 72 h	
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics EC50 - for Algae / Aquatic Plants.	1	
12.2. Persistence and degradabilit	ty.	
BUTANE		
Solubility in water.	0,1 - 100 mg/l	
Rapidly biodegradable.		
PROPANE		
Solubility in water.	0,1 - 100 mg/l	
Rapidly biodegradable.		
PROPAN-2-OL		
apidly biodegradable.		
ACETONE		
Rapidly biodegradable.		
ETHYL ACETATE		
Solubility in water.	> 10000 mg/l	
Rapidly biodegradable.		
BUTYLGLYCOL ACETATE Rapidly biodegradable.		

	Ambro-Sol s.r.l.	Revision nr. 5 Dated 31/01/2017
M	201 - Oily dielectric deoxidizer	Printed on 01/02/2017
		Page n. 13/17
Benzene, mono-C10-13- alkyl derivs., distn. residues IOT rapidly biodegradable.		
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics intirely biodegradable.		
12.3. Bioaccumulative potential.		
BUTANE		
Partition coefficient: n- octanol/water.	1,09	
PROPANE		
Partition coefficient: n- octanol/water.	1,09	
PROPAN-2-OL		
Partition coefficient: n- octanol/water.	0,05	
ACETONE		
Partition coefficient: n- octanol/water.	-0,23	
BCF.	3	
ETHYL ACETATE		
Partition coefficient: n- octanol/water.	0,68	
BCF.	30	
BUTYLGLYCOL ACETATE		
Partition coefficient: n- octanol/water.	1,51	

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

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

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

M201 - Oily dielectric deoxidizer Printed on 01/02/2017 Page n. 14/17

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, 1950 IATA:

14.2. UN proper shipping name.

ADR / RID:	AEROSOLS
IMDG:	AEROSOLS
IATA:	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es).

ADR / RID:	Class: 2	Label: 2.1
IMDG:	Class: 2	Label: 2.1
ΙΑΤΑ:	Class: 2	Label: 2.1

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14.4. Packing group.

ADR / RID, IMDG, IATA:

14.5. Environmental hazards.

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user.

ADR / RID:	HIN - Kemler:	Limited Quantities: 1 L	Tunnel restriction code: (D)
	Special Provision: -		
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 I	
IATA:	Cargo:	_ Maximum quantity: 100 Kg	Packaging instructions: 130
	Pass.:	Maximum quantity: 25 Kg	Packaging instructions: 130
	Special Instructions:	A802	



	Ambr	o-Sol s.r.l.	Revision nr. 5 Dated 31/01/2017	
	M201 - Oily di	electric deoxidizer	Printed on 01/02/2017	
M201 - Oily dielectric deoxidizer			Page n. 15/17	
4.7. Transport in bu	ulk according to Annex II of Mar	pol and the IBC Code.		
nformation not releva	ant.			
SECTION 15.	Regulatory informatior).		
15.1. Safety, health	n and environmental regulations	/legislation specific for the substance or mix	xture.	
Seveso Category - Di	rective 2012/18/EC: P3a			
Restrictions relating to	o the product or contained substar	nces pursuant to Annex XVII to EC Regulation 1	907/2006.	
Product. Point.	40			
Contained substance.	<u>.</u>			
Point.	52	DIISONONYL PHTHALATE Reg. no.: 01-2119430798-		
		28-XXXX		
Substances in Candic	date List (Art. 59 REACH).			
In the basis of availa	ble data, the product does not cor	ntain any SVHC in percentage greater than 0,1%	6.	
Substances subject to	authorisarion (Annex XIV REAC	<u>H).</u>		
lone.				
Substances subject to	o exportation reporting pursuant to	(EC) Reg. 649/2012:		
lone.				
Substances subject to	the Rotterdam Convention:			
lone.				
Substances subject to	the Stockholm Convention:			
lone.				
lealthcare controls.				
Vorkers exposed to t vorkers' health and s	his chemical agent must not unde afety are modest and that the 98/2	rgo health checks, provided that available risk- 4/EC directive is respected.	assessment data prove that the risks related to th	
15.2. Chemical saf	ety 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:

Revision nr. 5

Dated 31/01/2017

M201 - Oily dielectric deoxidizer

Printed on 01/02/2017 Page n. 16/17

Flam. Gas 1	Flammable gas, category 1	
Aerosol 1	Aerosol, category 1	
Aerosol 3	Aerosol, category 3	
Flam. Liq. 2	Flammable liquid, category 2	
Flam. Liq. 3	Flammable liquid, category 3	
Acute Tox. 4	Acute toxicity, category 4	
Asp. Tox. 1	Aspiration hazard, category 1	
Eye Irrit. 2	Eye irritation, category 2	
STOT SE 3	Specific target organ toxicity - single exposure, category 3	
H220	Extremely flammable gas.	
H222	Extremely flammable aerosol.	
H229	Pressurised container: may burst if heated.	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H312	Harmful in contact with skin.	
H332	Harmful if inhaled.	
H304	May be fatal if swallowed and enters airways.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
EUH066	Repeated exposure may cause skin dryness or cracking.	
IC50: Immobilization Conc IMDG: International Maritin IMO: International Maritin INDEX NUMBER: Identifie LC50: Lethal Concentratio LD50: Lethal dose 50% OEL: Occupational Expose PBT: Persistent bioaccum PEC: Predicted environme PEL: Predicted environme PEL: Predicted environme PEL: Predicted environme PEL: Predicted environme PEL: Predicted no effect REACH: EC Regulation 19 RID: Regulation concernin TLV: Threshold Limit Valu TLV CEILING: Concentrat TWA STEL: Short-term ex TWA: Time-weighted aver VOC: Volatile organic Con vPvB: Very Persistent and WGK: Water hazard class ENERAL BIBLIOGRAPHY	me Code for dangerous goods ie Organization er in Annex VI of CLP on 50% ure Level iulative and toxic as REACH Regulation ental Concentration level t concentration 907/2006 ng the international transport of dangerous goods by train ie tion that should not be exceeded during any time of occupational exposure. Agosure limit rage exposure limit rage exposure limit npounds d very Bioaccumulative as for REACH Regulation tes (German). Y	
. Regulation (EC) 1272/20 . Regulation (EU) 790/200 . Regulation (EU) 2015/83 . Regulation (EU) 286/201 . Regulation (EU) 618/201	 106 (REACH) of the European Parliament 108 (CLP) of the European Parliament 19 (I Atp. CLP) of the European Parliament 10 of the European Parliament 1 (II Atp. CLP) of the European Parliament 2 (III Atp. CLP) of the European Parliament 3 (IV Atp. CLP) of the European Parliament 	

M201 - Oily dielectric deoxidizer

Revision nr. 5

Dated 31/01/2017

Printed on 01/02/2017 Page n. 17/17

8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament

9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

Negulation (EU) 2015/1221 (VI 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:

01 / 09.