

Form: TDS-001 Root Reference: X-4155

Effective date: 01.2020

Rev.0

Oly Airless bottle, 100 ml

CONFORMITY DECLARATION

We do hereby certify that the quality of the above mentioned items delivered to you is conform to our Sales Specifications in force at the present date.

Is a customer's responsibility to check the chemical compatibility as well as the seal with the specific products.

Furthermore we do declare that the packaging for the cosmetic and pharmaceutical field supplied by us is fully conform to what foreseen by the current law.

Plastic

- D.M: of 21/03/73 published on the G.U. 104 del 20/04/1973 with D.M. 220 of 26/04/1993 and subsequent updates (for material intended to come in contact with food and drugs);
- 94/62/CEE Directive, granted by D.L. N° 22 of 05/02/97 Art. 43 C 4 on the content of heavy metals.;
- 2023/2006/CE Directive,1935/2004/CE Regulation and 10/2011 UE Regulation (Materials and objects intended to get in contact with food);
- 1907/2006 CE Regulation (Reach-SVHC);
- 282/2008/UE Regulation (Material recycling);
- 2007/19/CE Directive (Fhthalates);
- Bisphenol-A and Nitrite Substances: we state that this materials are not used during the production or intentionally incorporated;
- Recycling: the material is recyclable. The mainly operation is the mechanical material's recall. Most of the packaging components are divisible to allow the separate collection.

Pharmaceutical glass and Rubber

- Same references as for "Plastic", excluding 282/2008/UE Regulation;
- European Pharmacopea currently in force;
- American Farmacopea USP currently in force.

Cosmetic glass

- Same references as for "Plastic", excluding 282/2008/UE Regulation;
- Containers for its chemical composition and characteristics are conform to what foreseen for objects in glass of Category A (Encl. 2° Sect. 5 D.M. dd 21 March 1973) and from Art. 2 paragraph 1, a) b) c) from D.L. N° 108/92 and are suitable for food packaging.

GLOBAL FOOD CONTACT STATUS FOR BOTTLE CAP

European Union

This product complies with the relevant requirements of Regulation 1935/2004/EC (Framework Regulation) as applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes).

This product complies with the relevant requirements of Regulation 2023/2006/EC (GMP) and as amended, applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes). This product complies with the relevant requirements of Regulation 10/2011/EC (PIM) as amended, applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes). The monomers and additives used to produce this product are listed in the Union List of Authorized Substances of Regulation 10/2011/EC and subsequent amendments.

EU Regulation 10/2011/EC specifies 10 mg/dm2 as the maximum overall migration (OML) from the finished plastic food contact material or article. The OML and SMLs (when applicable) should be determined according to the requirements specified in EU Regulation 10/2011/EC and subsequent bamendments. The OML and SML determinations are the responsibility of the manufacturer of the finished plastic food contact material or article. In



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addition, we remind you that the manufacturers of the finished food contact material or article must verify that the finished material or article, manufactured according to good manufacturing practices, does not modify the organoleptic properties of the food.

SML Components

This product contains one or more components with Specific Migration Limits (SMLs).

39815; 9,9-bis(methoxymethyl)-9H-fluorene; SML = 0.05mg/kg

SML = 1 mg/kg (expressed as Aluminium)

39090; N,N-bis(2-hydroxyethyl)alkyl (C8-C18)amine; SML(T) = 1.2 mg/kg

39120; N,N-bis(2-hydroxyethyl)alkyl (C8-C18)amine hydrochlorides; SML(T) = 1.2 mg/kg (Expressed as tertiary amine excluding Hcl)

68320; Octadecyl 3(3,5-Di-tert-butyl-4-hydroxyphenyl) propionate; SML = 6 mg/kg

Dual Use Additives This product contains one or more Dual Use Additives as defined in Regulation 10/2011/EC. E 470a Calcium salts of fatty acids

United States

The base resin in this product meets the FDA requirements contained in the Code of Federal Regulations in 21 CFR 177.1520(a)(1)(i) and (c)1.1a. This product may contain adjuvant substances that may be safely used in polymers used for the manufacture of articles that come into direct contact with food. According to our information, these substances used in this product meet the requirements of their respective FDA regulations, FCNs, and 21 CFR 177.1520(b)

This product meets the FDA criteria in 21 CFR 177.1520 for food contact applications, including cooking, listed under conditions of use A through H in 21 CFR 176.170(c), Table 2, and can be used in contact with all food types as listed in 21 CFR 176.170(c), Table 1.

China

GB4806.1-2016 - Food Contact Material & Articles General Safety Requirement

This product complies with relevant requirements of GB4806.1-2016 - Food Contact Material & Articles General Safety Requirement, as applicable to Plastic Resins.

GB4806.6-2016 - National Food Safety Standard: Food Contact Resins

The base resin in this product complies with the specifications established in GB4806.6-2016, National Food Safety Standard: Food Contact Resins, Appendix A.1, Serial Number 74, resin type: PP."

No monomer(s) with SMLs are present in this base resin.

GB9685-2016 - National Food Safety Standard: Additives for use in Food Contact Materials and Articles The additives used in this product comply with the requirement of "GB9685-2016 National Food Safety Standard: Additives for use in Food Contact Materials and Articles and relevant approval announcements.

Please note that some additives could have migration (SML, SML (T)) and/or Maximum Residual (QM) nrestrictions applicable to final food contact articles, the identities of which may or may not be disclosed in this document.

One or more additives with Maximum Residual (QM) specifications may be used in this product.

SML/SML(T) Additives:

The following additives with Specific Migration Limit (SML) and/or Total Specific Migration Limit (SML (T)) specifications are used in this product:



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FCA 0576; Octadecyl 3-(4-hydroxy-3,5-di-tert-butylphenyl)propionate; SML = 6mg/kg

General Remarks

GB4806.1-2016 "Food Contact Materials & Articles -General Safety Requirement" Clause 8.4, requires only the manufacturer of the finished plastic food contact article to declare compliance with OML specification.

Final plastic food contact articles may have additional compliance requirements and are the responsibility of the manufacturer of the finished plastic food article.

Allergen Statements

Allergen - Food Allergen European Regulation 1169/2011

The food ingredients listed in Annex II of Regulation (EU) No 1169/2011, are not used in the manufacture of or formulation of this product. However, this product has not been tested for these substances.

Biomedical Policy

This product(s) may not be used in:

(i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices.

(iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications. All references to U.S. FDA, Health Canada, and European Union regulations include other countrys equivalent regulatory classifications.

Animal Based Raw-Materials (BSE/TSE)

Tallow Tallow derived additives may be used in the manufacture of this product.

Europe - BSE/TSE - "Mad Cow"

Tallow derived materials used in this product fullfill the requirements laid down in the Regulations 1069/2009/EC, and 142/2011/EC, and the "Note for Guidance EMA/410/01, and as amended.

Epoxy Derivatives

The materials BADGE, BFDGE or NOGE are not intentionally added in this product as referenced in Commission Regulation 1895/2005/EC, on the use of certain epoxy derivatives in materials and articles intended to come into contact with foodstuffs as plasticizers, additives or raw materials.

Genetically Modified Organisms (GMO)

Additives derived from Genetically Modified Organisms (GMO¶s) are not intentionally used in the formulation of this product.



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Halal Certification

We do not certify our resins to be HALAL or in compliance with HALAL requirements.

Kosher Certification

We do not certify our resins to be Kosher or in compliance with Kosher requirements.

Latex

No materials containing latex or natural rubber are used in the manufacturing, handling and packaging processes for this product.

Metals Content

US CONEG

Based on the available documentation provided by our raw material suppliers, this product complies with the CONEG Model Legislation for requirements regarding the defined limit for the sum of heavy metals (lead, mercury, cadmium and hexavalent chromium).

EU Packaging and Packaging Waste

Based on the available documentation from raw materials suppliers, this product complies with the directive 94/62/EC and as amended concerning the defined limit(s)of heavy metals.

Restriction of Hazardous Substances in Electric and Electronic Equipment (RoHS)

RoHS Regulation refers to electrical and electronic equipment and not specifically to plastic raw materials. However, based on the available documentation from raw materials suppliers, this product complies with the requirements of the Directives 2002/95/EC and 2011/65/EU, as amended, concerning the limits of cadmium, lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), bis(2-ethylhexyl)phthalate (DEHP), butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and diisobutyl phthalate (DIBP).

Nanomaterials

Nanomaterials (defined as natural, incidental or manufactured materials containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm) are not used in the manufacture of or the formulation of this grade. However, this product has not been tested for these chemical substances.

Other Chemicals

The chemical materials listed below are not intentionally used in the manufacture or the formulation of this product. However, this product has not been tested for these chemical materials:

2-(2H-1, 2, 3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol; (Benzotriazole); CAS# 3846-71-7;

¶trichloro-2¶hydroxydiphenyl ether; (Triclosan); CAS# 3380-34-5;

2-mercaptobenzothiazole; MBT; CAS# 149-30-4;

Acrolein; (propenal); (CAS# 107-02-8);

Acrylamide; CAS# 79-06-1;

Aromatic amines;

Asbestos;



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Azo Dyes and Pigments;
Polyaromatic Hydrocarbons - PAHs:
1,2-dihydro-acenaphthene; (CAS# 83-32-9);
Acenaphthylene; (CAS# 208-96-8);
Anthracene; (CAS# 120-12-7);
Benz(a)anthracene; (CAS# 56-55-3);
Benzo(a)pyrene; (CAS# 50-32-8);
Benzo(b)fluoranthene; (CAS# 205-99-2);
Benzo(e)pyrene; (CAS# 192-97-2);
Benzo(ghi)perylene; (CAS# 191-24-2);
Benzo(j)fluoranthene; (CAS# 205-82-3);
Benzo(k)fluoranthene; (CAS# 207-08-9);
Chrysene; (CAS# 218-01-9);
Dibenz(a,h)anthracene; (CAS# 53-70-3);
Fluoranthene; (CAS# 206-44-0);
Indeno(1,2,3-cd)pyrene; (CAS# 193-39-5);
Naphthalene; (CAS# 91-20-3);
Phenanthrene; (CAS# 85-01-8);
Pyrene; (CAS# 129-00-0);
Bisphenol A; (BPA); CAS# 80-05-7;
Bisphenol A diglycidyl ether; (BADGE); CAS# 1675-54-3;
Bisphenol F diglycidyl ether; BFDGE; CAS# 2095-03-6;
Butylated hydroxyanisole; (BHA); CAS# 121-00-6 & 25013-16-5;
Butylated hydroxytoluene; (BHT); CAS# 128-37-0
Chlorinated paraffins;
Cyanuric acid; (Isocyanuric Acid or CYA); CAS# 108-80-5;
Dimethyl fumarate; (DMF); CAS# 624-49-7;
Dioxins;
Epichlorohydrin; (ECH); CAS# 106-89-8;
Fluorocarbons;
Fluorotelomers
Formaldehyde; CAS# 50-00-0;
Formaldehyde in specific conditions could be formed during further resin processing (see SDS)
Gold(Au); CAS# 7440-57-5;
Halogenated Flame Retardants
Melamine; (1,3,5-Triazine-2,4,6-triamine); CAS# 108-78-1;
Nonylphenol; CAS# 25154-52-3;
Nonylphenol ethoxylates;
Novolac glycidyl ether;
Organotin compounds;
Perfluorochemicals; (PFCs);
Perfluorooctane sulfonate; (PFOS); CAS# 1763-23-1;
Perfluorooctanoic acid; (PFOA); CAS# 335-67-1;
Polybrominated biphenyls; (PBBs);
Polybrominated diphenyl ethers; (PDBEs);
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Polybrominated terphenyls; (PBTs); Polychlorinated biphenyls; (PCBs); Polychlorinated naphthalenes; (PCNs); Polychlorinated terphenyls; (PCTs);

Polystyrene;

Polyvinyl chloride; (PVC); CAS# 9002-86-2; Styrene monomer; CAS# 100-42-5; Sulphur dioxide; CAS# 7446-09-5;

Tin oxide (SnO2); (Cassiterite); CAS# 8062-08-6; Tris-nonylphenol phosphite; (TNPP); CAS# 26523-78-4;

Vinyl chloride; CAS# 75-01-4;

Wolframite; Tungsten (W); CAS# 1332-08-7;

Ozone Depleting Substances

European Union

The ozone-depleting substances (ODS), listed in the Annexes I & II of the Regulation (EC) No 1005/2009 of 16 September 2009, are not intentionally used in the manufacture of or formulation of this product.

United States

Materials listed in the Clean Air Act Amendments of 1990 (Class I, CFC¶s and Class II, HCFC¶s, Halons and the solvents, carbon tetrachloride and 1,1,1-trichloroethane) are not intentionally used in the production of this product.

Phthalates

Polyolefins do not require the use of plasticizers (such as phthalates) to make them soft and flexible. Lyondellbasell does not add phthalates to its polyolefin products as plasticizers. However, traces of phthalates may be present in some products as impurities from the catalytic system.

REACh Substances of Very High Concern (SVHC)

This product does not contain any of the Annex XIV substances on the Authorisation list or Annex XIV candidate chemicals proposed to be Substances of Very High Concern for Authorisation (List as of July 16, 2019) above the 0.1 % threshold as stated in REACH (Article 57, Regulation No. 1907/2006) determined either through (i) non-use of the substance, (ii) mass balance calculation, or (iii) specific testing. The current list of all SVHCs can be found at ECHA website link listed below:

https://www.echa.europa.eu/candidate-list-table

Global Chemical Control Regulations

All ingredients in this product are in compliance with the following chemical inventories: See Section 15, of the SDS (Safety Data Sheet) for Global Chemical Inventories.

Global Toy Regulations:

CEN EN Standards refer to safety of toys and not specifically to plastic raw materials. According to the information provided by our raw material suppliers, we deem this product should comply with the requirements of CEN standards



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EN71-3 / EN71-9 (as amended) as applicable to plastic raw materials (pellets, powder, flakes). However, this product has not been tested according to these CEN Standards.

VOC Content

Switzerland VOC Declaration

This product contains less than 3% VOC's of the substances in the positive lists of the Switzerland Regulations "VOC-LENKUNGSABGABE."

CEN Standard EN 13432:2004

This product is not suitable for composting.

Energy Recovery - CEN Standard EN 13431:2004

The calorific gain from polypropylene in an energy recovery process is 24 MJ/kg.



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		Description	
Part list	Material	Color	Others
	Containe	er including piston (lower set))
Piston (standard)	HDPE / VLDPE (Blend)) Natural	Standard piston position - see drawing Customized piston position upon request
Piston (optional)	HDPE / TPO (Blend)	Natural	Standard piston position - see drawing Customized piston position upon request
Container	PP	Transparent / White *	Available sizes: 30 ml, 50 ml, 75 ml, 100 ml
		Pump (upper set)	
Сар	PP	Transparent / White ²	•
Actuator outer	PP	Transparent / White ²	Different versions according to product overv
Jpper valve (standard)	EVA	Natural	
Jpper valve (optional)	TPO	Natural	
Upper valve (optional)	VLDPE	Natural	-
Actuator inner	PP	Natural	*
Reduction plug	PP	Natural	
Bellows (standard)	VLDPE	Natural	
Bellows (optional)	TPO	Natural	
Adapter	PP	Transparent / White *	Different versions asserting to conduct a con-
			Different versions according to product overv
Adapter ring	PP	Transparent / White ²	•
		mponents are available upon request	
Packaging:	Layer packed in cardbo	ard box with inserted PE-bag	full cover but stamping silk screening metallization
Packaging:	Layer packed in cardbo	ard box with inserted PE-bag ration upon request e.g.: hot stamping,	full cover hot stamping, silk screening, metallization,
* Color: Packaging: General information:	Layer packed in cardbo Different kinds of decor	ard box with inserted PE-bag ration upon request e.g.: hot stamping,	, full cover hot stamping, silk screening, metallization,
Packaging: General information:	Layer packed in cardbo Different kinds of decor	ard box with inserted PE-bag ration upon request e.g.: hot stamping,	full cover hot stamping, silk screening, metallization,
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Packaging: General information: Revision	Layer packed in cardbo Offerent kinds of decor lacquering, printing, lab Dated 16.04.2018 Release Aptar Villingen GmbH	and box with inserted PE-bag ation upon request e.g.: hot stamping, eling Modifications Release	
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Packaging: General information: Revision OO Name: Function: Date:	Layer packed in cardbo Different kinds of decor lacquering, printing, lab Dated 16.04.2018 Release Aptar Villingen GmbH Mr. Haluk Cimentepe Director - Expert Center 16.04.2018 This document is valid to Mr. Helmut Hauschel	and box with inserted PE-bag ation upon request e.g.: hot stamping. eling Modifications Release	



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Controls	W	rod. "	Values				Methods
	18	ě					
					appearance		
Visual checks of molded, assembled and decorated components	s	s	According to Home Europe		Standard AF	TAR Beauty +	View distance of 60 cm for a few seconds
Decoration	s	s					Adhesion test with SCOTCH Tape 600
					ensions		
	1 6	-	A				
lower set	S		According to current drawings According to current drawings				Measurement or test gauge Measurement or test gauge
	-		According to current drawings				
Piston position	s	3	According to	100000000000000000000000000000000000000			Measurement
		100		Fund	ctionality		
o be performed in the laboratory. Indicated values determined without embedd	ed air	poci	kets, and/or st	icky, and/or	abrasive effe	ects of the bulk.	Function tests with a bulk viscosity > 40.000 cps have Measurements are determined using a Brookfield of the specific bulk in each case (viscosity/properties).
ndications above do not replace the achieve							
The measured value determined in the data :	sneet	are t	ased on the u	sage of the	standard ma	terials and stan	aard dispenser configuration.
Priming of the pump (actuations)	s		≤ 6 actuation	5			Result based on recommended maximum fill volume
			500 µl				-
Dosage of the pump	s			(nominal) (nominal) (nominal) 560 µl ± 15 % 880 µl ± 15 % -			Determination with glycerol. Result depending on individual bulk properties
Actuation force (without bulk) - maximum	s	-	22 N				Determination by dynamometer
	ri ri ri			Pump	(upper set)	
ump performance	s	s	Functionality				100 % functional test on the assembly line
ump performance - minimum pressure	s		- 150 mbar	in at			Vacuum measuring device
Cap retention force - minimum	s	-	10 N				Determination by dynamometer
Cap retention force - maximum	s		30 N				Determination by dynamometer
			Contain	er includi	ing piston	(lower set)	
	Т.		30 ml	50 ml	75 ml	100 ml	
Recommended fill volume - maximum	s		The second secon	55,6 ml	82,0 ml	102,4 ml	Determination with colored water
Brimful capacitly (OFC) - maximum	s			63,7 ml	90,2 ml	110,7 ml	Determination with colored water
olerance	s	٠	± 0,5 ml	± 0,6 ml	± 0,8 ml	± 1,0 ml	Filling according to the current filling recommendation
		A	ssembled p	ackage (lower set	with upper s	et)
	$\overline{}$		≤ 2,1 ml				Depending on the actuator system and bellows size
Dead volume	s	٠.					Performed with glycerol
Dead volume	s		No visible lea	kage			Performed with glycerol Test bulk viscosity ≥ 1.400 cps Tested in vacuum chamber at -250 mbar incremental pressure (-750 mbar absolute pressure) lasting 2
							Performed with glycerol Test bulk viscosity ≥ 1.400 cps Tested in vacuum chamber at -250 mbar incremental pressure (-750 mbar absolute pressure) lasting 2 minutes of each phase (apply vacuum, hold vacuum,
/acuum seal test Drop test	s		No visible lea				Performed with glycerol Test bulk viscosity ≥ 1.400 cps Tested in vacuum chamber at -250 mbar incremental pressure (-750 mbar absolute pressure) lasting 2 minutes of each phase (apply vacuum, hold vacuum, release vacuum) Drop height 0,85 m (horizontally droped on vinyl plate
acuum seal test Prop test Pump assembly force - minimum	s		No visible lea				Performed with glycerol Test bulk viscosity ≥ 1.400 cps Tested in vacuum chamber at -250 mbar incremental pressure (-750 mbar absolute pressure) lasting 2 minutes of each phase (apply vacuum, hold vacuum, refease vacuum) Drop height 0,85 m (horizontally droped on vinyl plate without initial speed
Vacuum seal test Drop test Pump assembly force - minimum Pump assembly force - maximum	s		No visible lea Still functiona 300 N				Performed with glycerol Test bulk viscosity ≥ 1.400 cps Tested in vacuum chamber at -250 mbar incrementa pressure (-750 mbar absolute pressure) lasting 2 minutes of each phase (apply vacuum, hold vacuum, refease vacuum) Drop height 0,85 m (horizontally droped on vinyl plate without initial speed Determination by dynamometer
Pump assembly force - minimum Pump assembly force - maximum Pump are maximum	s		No visible lea Still functiona 300 N 450 N				Performed with glycerol Test bulk viscosity ≥ 1.400 cps Tested in vacuum chamber at -250 mbar incremental pressure (-750 mbar absolute pressure) lasting 2 minutes of each phase (apply vacuum, hold vacuum, release vacuum) Drop height 0,85 m (horizontally droped on vinyl plate without initial speed Determination by dynamometer Determination by dynamometer
Pacuum seal test Prop test Pump assembly force - minimum Pump assembly force - maximum Pump retention force - minimum	s s s		No visible lea Still functiona 300 N 450 N				Performed with glycerol Test bulk viscosity ≥ 1.400 cps Tested in vacuum chamber at -250 mbar incrementa pressure (-750 mbar absolute pressure) lasting 2 minutes of each phase (apply vacuum, hold vacuum, release vacuum) Drop height 0,85 m (horizontally droped on vinyl plate without initial speed Determination by dynamometer Determination by dynamometer Determination by dynamometer
/acuum seal test	s s s		No visible lea Still functiona 300 N 450 N				Performed with glycerol Test bulk viscosity ≥ 1.400 cps Tested in vacuum chamber at -250 mbar incrementa pressure (-750 mbar absolute pressure) lasting 2 minutes of each phase (apply vacuum, hold vacuum, release vacuum) Drop height 0,85 m (horizontally droped on vinyl plat without initial speed Determination by dynamometer Determination by dynamometer Determination by dynamometer



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Filling Information Filling information for Top Fill dispensers In order to avoid leakage of the bulk through the orifice, while snapping the pump onto the container, the maximum recommended fill volume should not be exceeded. When dispensers are extremly underfilled, the resulting air pocket between the bulk and the bottom of the pump might cause a higher number of strokes to prime. High underfilling or big air pockets, embedded inside the bulk, can result in leakage problems during air transportation. In order to avoid air pockets, we recommend using diving fill nozzles. System filled at optimal fill level Underfilled system Diving Fill Pump Nozzle Container Low Fill Optimal Level Fill Level Pocket In order to determine the optimal fill level please see chart below. Micro round Micro oval Mezzo Nano ٤



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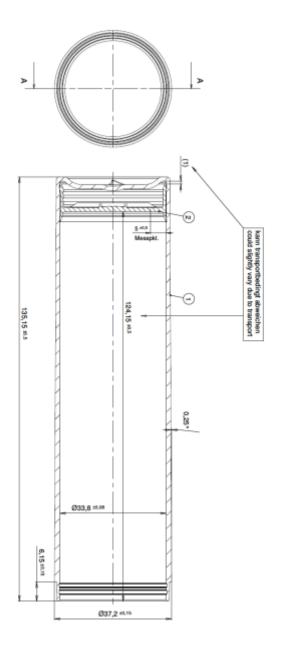
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TECHNICAL DATA SHEET

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100 ml glossy white container for snap-on pump Adapter "Mezzo Round" (PP), diameter 37 mm, assembled, natural-colored piston, approx. 21 g



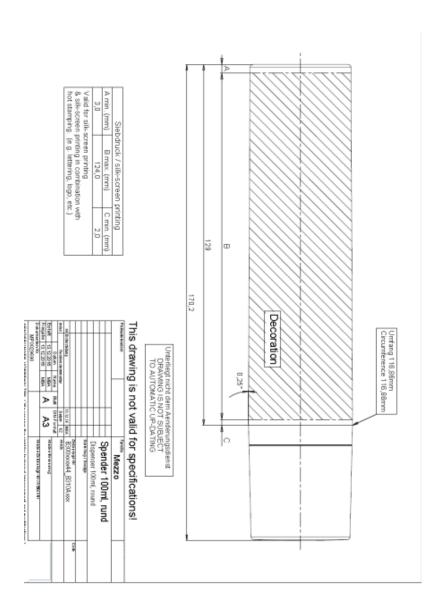


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Effective date: 01.2020

Rev.0

Oly Airless bottle, 100 ml



Ultimately customers must make their own determination that their use of our product is safe, lawful (except as provided in the above certifications) and technically suitable in their intended applications.