TYPE APPROVAL OF PACKAGING FOR TRANSPORTATION OF DANGEROUS GOODS CERTIFICATE NO.: NET0231A

HOLDER OF CERTIFICATE:

Berry Norway Containers AS

MANUFACTURER: Berry Norway Containers AS, Brevikveien 535, N-1506 Moss, Norway

MARKING ON PACKAGING:
Each packaging intended for use according to the ADR shall bear markings which are durable, legible and placed in a location as to be readily visible. Letters, numerals and symbols shall be at least 6 mm high. The packaging shall also be appropriately marked with the month of the manufacture. The period of use permitted for the carriage of dangerous substances shall be five years from the date of manufacture of the jerricans, except where a shorter period of use is prescribed because of the nature of the substance to be carried.

(un) 3H1/Y1.9/150/YR/N/NET0231A - ID

(un)	: The United Nations symbol
3H1	: Plastics jerricans, non-removable head
Y1.9	: Packaging group II and III, and relative density of the substance
150	: Hydraulic test pressure in kPa
YR	: To be replaced with the last two digits of the year of manufacture
N	: Norway, the state authorizing the allocation of the mark
NET0231A - ID	: Identification of the jerrican followed by "ID" to be replaced by the name or symbol of the manufacturer

PRODUCT:

Description/ Method of manufacture
Blow moulded stackable jerrican performed in HDPE, details in report.

DIMENSIONS:

Weight of the jerrican, g	Volume, l	L*W*H, mm	Neck size, mm	Min. wall thickness, mm	Drawing / Product
431 - 455	10.0	230*190*319	61	0.67	W-3465-09842, Rev.E / 9499
431 - 455	10.0	230*190*319	55	0.67	W-3465-16679, Rev.E / 9499

NET Emballasje- og Produkttesting AS
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VAT No.: 990 793 840
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GPS: 59°03'25'' N 9°40'70'' E

431 - 455	10.0	230*190*319	40	0.67	W-3465-10119, Rev.E / 9499

CLOSING MECHANISM:

#: Screw cap	Producer	Drawing	Material	Gasket	Torque
1: 55 mm	KTH GmbH	KTH 51 / V 5162	HDPE, details in report	Alveocel LA	20 Nm
2: 55 mm vented	KTH GmbH	KTH 51 V+S / V5104	HDPE, details in report	Alveocel LA	20 Nm
3: 55 mm	RPC Promens Deeside Ltd	Pilfer Proof Din 51	HDPE, details in report	EPE liner	15 Nm
4: 61 mm	RPC Promens Industrial UK	RPC Promens DIN 61 Ver.2	HDPE, details in report	EPE liner	20 Nm
5: 61 mm	Emballator Växjö AB	12575/ 61-343	HDPE, details in report	EPE/PET, EPE/IHS, EPE/ALU	20-25 Nm
6: 61 mm	Bergi-plast GmbH	Kanisterverschluss nr. 61 rev 8	HDPE, details in report	EPE liner	20 Nm
7: 61 mm vented	Bergi-plast GmbH	00-1837	HDPE, details in report	EPE liner	25 Nm
8: CR 40 mm	Emballator Växjö AB	12445/ 40-983/901G	HDPE, details in report	EPE/PET	10 Nm

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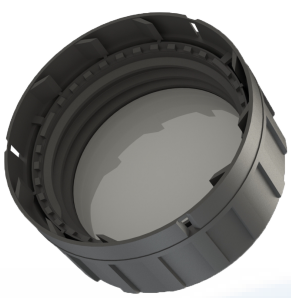

LEGISLATION:
The certificate is valid for a maximum of five years, provided no modifications have been made to the packaging design, materials, dimensions, closure system or manner of construction. To ensure validation of the certificate, check the NET website.
NET issues the certification on described product according to delegated authority from Norwegian Directorate for Civil Protection and Emergency Planning (DSB): Legal regulations for Transportation of Dangerous Goods on road and railway - 2023/4375 PRAX.
NET issues the certification on described product according to delegated authority from Norwegian Maritime Directorate (Sjøfartsdirektoratet) - 200705977-4/5367.1.
NET issues the certification on described product according to an agreement between Norwegian Civil Aviation Authority (Luftfartstilsynet) - 01.03.18 - 18/00114-8.

REGULATIONS BASED UPON FOR APPROVAL:
UN Recommendations on the Transport of Dangerous Goods.
ADR, European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID, International Regulations on Transport of Dangerous Goods by Rail.
IMDG, International Maritime Dangerous Goods Code, for sea transport.
ICAO, Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IATA, Dangerous Goods Regulations, for the air transport.

TESTS CARRIED OUT:
Prototype tests performed and approved according to the above regulations:
6.1.5.2.6 Chemical compatibility
6.1.5.3 Drop test
6.1.5.4 Leakproofness test
6.1.5.5 Internal pressure test
6.1.5.6 Stacking test
6.1.5.7 Supplementary permeability test

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APPROVAL IS VALID FOR:

The packaging is valid for packaging group II and III containing liquid substances covered by the liquids listed in the table below. The liquids marked with letter A - F are referring to standard liquids listed in ADR 6.1.6.1 and verified by chemical compatibility testing, ADR 6.1.5.2.6, to this specific liquid.
The dangerous substances allowed to transport in the packaging after chemical compatibility with these liquids, are listed in the "Assimilation list" table 4.1.1.21.6 in ADR.
The packaging shall always be used according to the requirements of the applicable UN-code and its packaging instructions.

Content	Max. relative density	Max. vapour pressure, kPa at +50°C	# Closure
Standard liquid A: Wetting Solution	1.2	142	1,3,4,5,6
Standard liquid B: Acetic Acid	1.2	142	1,3,4,5,6
Standard liquid C: n-Butyl acetate	1.0	142	1,3,4,5,6,8
Standard liquid D: Mixture of hydrocarbons	1.0	142	1,3,4,5,6,8
Standard liquid E: Nitric Acid	1.4	142	1,2,4,5,6,7,8
Standard liquid F: Water	1.9	142	1,3,4,5,6,8
Mi Syre	1.2	142	1
Mi Syre Micro	1.2	142	1

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0231A	20.02.2018	NET	Type approval
NET02TE10	22.08.2018	NET	Technical evaluation, # cap
NET02T20	11.01.2019	NET	Additional type test, 61 mm
NET0231A4	11.01.2019	NET	Additional type test, vent.cap
NET0231A2	29.01.2019	NET	Additional type test, MS/MSm
NET0231B	31.10.2019	NET	Additional type test, 40 mm

VALIDITY:

The continued validity of the type approval requires that the holder of the certificate and/ or the manufacturer inform NET certification that has approved its type of packaging of any changes to the characteristics of the type or anything that can influence on the transport safety on the specific design so that it can be verified that the type of packaging continues to comply with packaging tested as base for the original type approval.
The validity of the type approval assume regular verification by means of periodic audits by NET in accordance with NET Doc 2: "Production control agreement". The packaging shall be manufactured, reconditioned and tested under a quality assurance program which satisfies NET Certification, in order to ensure that each packaging meets the requirements in ADR and the guidelines in ISO 16106.

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TEST STANDARD:
All tests are performed in accordance with NET accredited test method ATM001. The test method is accredited in accordance with ISO17025 approved by Norsk Akkreditering and based upon ISO16495 and ISO13274.

NORSK AKKREDITERING TEST 259

BREVIK, NORWAY **28.11.2024** CERTIFICATE IS VALID UNTIL: **30.04.2025**

Geir Morten Johansen
Certification Officer

Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification

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