

**TYPE APPROVAL OF PACKAGING FOR
TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET0140SA**

HOLDER OF CERTIFICATE:
Emballator Mellerud Plast AB

MANUFACTURER: Emballator Mellerud Plast AB, Box 83, SE-464 22 Mellerud, SWEDEN

MARKING ON PACKAGING:

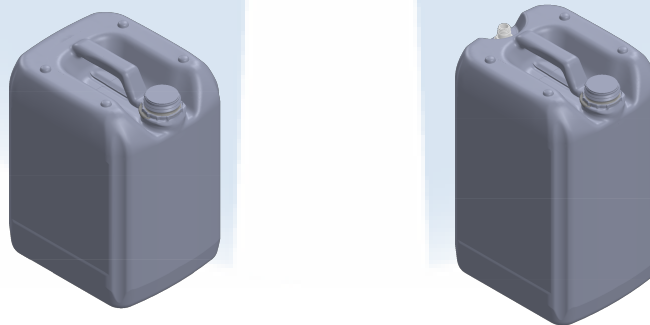
Each packaging intended for use according to the ADR shall bear markings which are durable, legible and placed in a location as to be readily visible. Letters, numerals and symbols shall be at least 12 mm high. The packaging shall also be appropriately marked with the month of the manufacture.

Ⓢ **3H1/Y1.9/150/YR/N/NET0140SA - ID**

- Ⓢ : 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
- NET0140SA - 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 jerrican, g	Volume, l/ min. wallthickness	L*W*H, mm	Neck size, mm	Drawing
1: 922-1499	25.0/ 0.99 - 1.46	288*251*456	61/ 25	H2500-610-131, H2500-610-142
2: 808-1323	20.0/ 0.99 - 1.46	288*251*380	61/ 25	H2000-610-131, H2000-610-142
3: 703-1160	15.0/ 0.99 - 1.46	288*251*310	61/ 25	H1500-610-131, H1500-610-142

4: 1143-1499	25.0/ 1.10 - 1.46	288*251*456	61/ 25	H2500-610-131, H2500-610-142
5: 999-1323	20.0/ 1.10 - 1.46	288*251*380	61/ 25	H2000-610-131, H2000-610-142
6: 865-1160	15.0/ 1.10 - 1.46	288*251*310	61/ 25	H1500-610-131, H1500-610-142
7: 1113-1369	25.0/ 1.04	288*251*456	61/ 22	D2500-610-104Å
8: 823 - 1338	20.0/ 0.99 - 1.46	288*251*390	61/ 25	H2000-610-131
9: 1044 - 1369	20.0/ 0.99 - 1.46	288*251*390	61/ 25	H2000-610-131

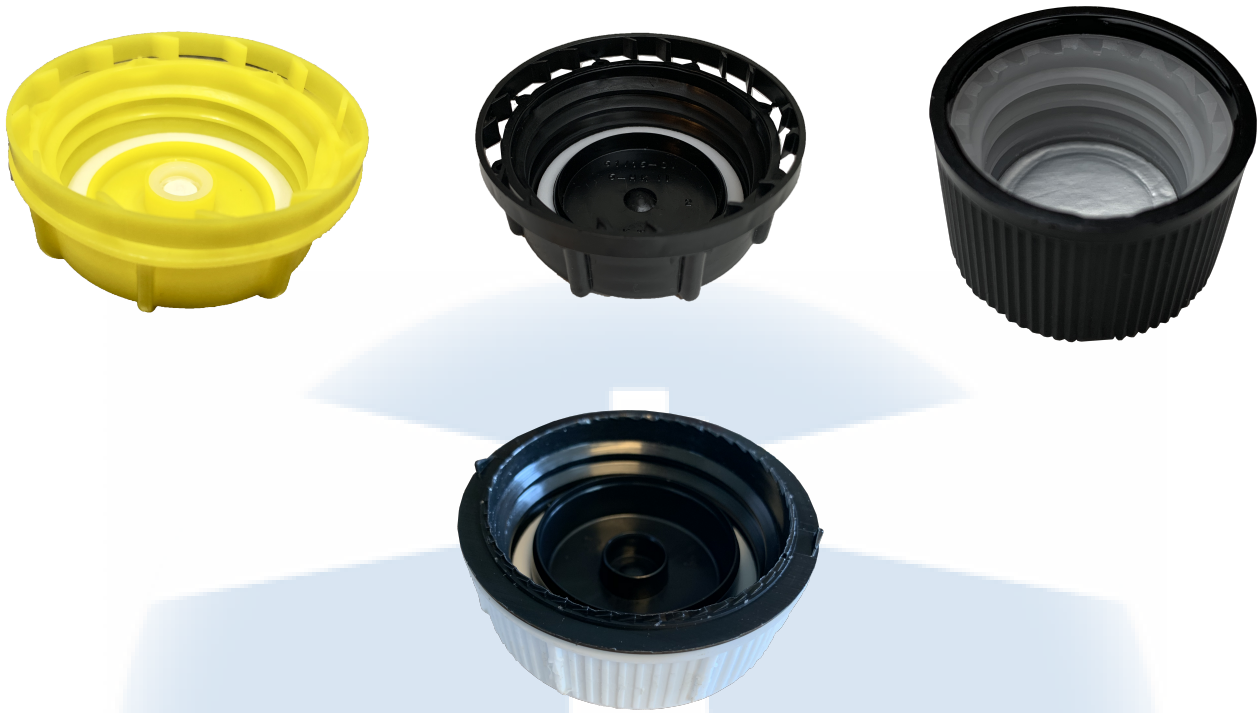
MAXIMUM DEGREE OF FILLING IN LITER AT 15 °C, SHALL BE:

Initial boiling point in °C	< 60	>= 60 < 100	>= 100 < 200	>= 200 < 300	>= 300
25 L	24.9	25.4	26.0	26.5	27.1
20 L	19.9	20.4	21.0	21.5	22.1
15 L	14.9	15.4	16.0	16.5	17.1

CLOSING MECHANISM:

#: Screw cap	Producer	Drawing	Material	Gasket	Torque
1: 61 mm	Bergi-Plast GmbH	Kanisterverschluss Nr.61 n. v.8	HDPE, details in report	EPE 300	20 Nm
2: 61 mm vented	Bergi-Plast GmbH	00-1837	HDPE, details in report	EPE 300	20 Nm
3: 61 mm	Bergicap GmbH	SK 60/31 MAB MDR	HDPE, details in report	ALKOzell 300	20 Nm
4: CR 61 mm	KTH GmbH	61/16-ov	HDPE, details in report	Alveocel	20 Nm
5: 61 mm	Bergicap GmbH	ENG-00-013532	HDPE, details in report	PE/Alkozell/ PE	20 Nm
6: 25 mm	Modulpac AB	25PMPP/7250001	HDPE, details in report	PET/Alkozell/ PET	3 Nm
7: CR 22	Modulpac AB	22YD / 22IO	HDPE / HDPE, details in report	Alu wad	3 Nm





LEGISLATION:

The approval is valid for a maximum of five years, provided no modifications are made to the packaging design, materials, dimensions, closure system, or construction method. This certificate may be revoked at any time. To ensure its validity, please check the published version online (www.net17025.com/Sertifisering/UN_ADR/cid/30758/).

NET issues this certification for the described product under delegated authority from the Norwegian Directorate for Civil Protection (DSB), in accordance with the Legal Regulations for the Transportation of Dangerous Goods by road and railway - 2023/4375 PRAX.

NET issues this certification for the described product under delegated authority from the Norwegian Maritime Authority (Sjøfartsdirektoratet) - 200705977-4/5367.1.

NET issues this certification for the described product based on an agreement with the 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

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	Packaging # / Screw cap #
Standard liquid A: Wetting Solution	1.2	143	4,5,6,8,9 / 1,3,5,6
Standard liquid B: Acetic Acid	1.1	143	1-6,8,9 / 1,3,5,6
Standard liquid C: n-Butyl acetate	1.0	143	4,5,6,8,9 / 1,3,5,6
Standard liquid D: Mixture of hydrocarbons	1.0	143	4-9 / 1,3-7
Standard liquid E: Nitric Acid	1.4	143	4,5,6,8,9 / 1,2,3,5,6
Standard liquid F: Water	1.9	143	1-6,8,9 / 1,3,5,6

DOCUMENTS BASED UPON FOR APPROVAL:

Report id.	Date	Issued by	Scope
NET0140SA4	10.09.2020	NET	Additional type test, CR caps
NET0140SA3	07.01.2020	NET	Additional type test, cap 2-4
NET0140SA	08.04.2019	NET	Type approval
NET2812A	17.12.2020	NET	Additional test, 25PMPP
NET01TE15	29.11.2023	NET	Technical evaluation, 20 and 15 L

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 NS-EN ISO 16106:2020.

TEST STANDARD:

All tests are performed in accordance with NET accredited test method ATM001. The test method is accredited in accordance with NS-EN ISO/IEC 17025:2017 approved by Norsk Akkreditering and according to NS-EN ISO 16495:2022 and NS-EN ISO 13274:2013.



BREVIK, NORWAY

15.10.2024 CERTIFICATE IS VALID UNTIL:

31.12.2025



Mathias Werner
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing Certification

