# TYPE APPROVAL OF PACKAGING FOR TRANSPORT OF DANGEROUS GOODS CERTIFICATE NO.: NET0366C

CERTIFICATE HOLDER:
**Greif Sweden AB**

**MANUFACTURING SITE:** Greif Sweden AB, Kvekatorpsvägen 25, Box 203, SE-311 23 Falkenberg, Sweden

**UN MARKING:**
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. 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/Y1.9/200/YR/N/NET0366C - 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 |
| 200 | : 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 |
| NET0366C - ID | : Identification of the jerrican followed by "ID" to be replaced by the name or symbol of the manufacturer |

**PACKAGING DESIGN:**

| Method of manufacture/ Description/ Min. wall thickness |
|---|
| 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 | Drawing |
|---|---|---|---|---|
| 1: 930-1388 | 20.0 | 295*260*376 | 60 | FB-0021 Rev B, FB-0001 Rev B |
| 2: 980-1388 | 20.0 | 295*260*376 | 60 | FB-0021 Rev B, FB-0001 Rev B |



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|---|---|---|---|---|
| 3: 1078-1132 | 20.0 | 295*260*376 | 60 | FB-0021 Rev B, FB-0001 Rev B |
| 4: 1071-1598 | 25.0 | 295*260*441 | 60 | FB-0022 Rev B, FB-0002 Rev B |
| 5: 1127-1598 | 25.0 | 295*260*441 | 60 | FB-0022 Rev B, FB-0002 Rev B |
| 6: 1240-1302 | 25.0 | 295*260*441 | 60 | FB-0022 Rev B, FB-0002 Rev B |
| 7: 1124-1676 | 27.5 | 295*260*470 | 60 | FB-0023 Rev B, FB-0003 Rev B |

**MAXIMUM DEGREE OF FILLING IN LITER AT 15 °C:**

| Initial boiling point in °C | < 60 | >= 60 < 100 | >= 100 < 200 | >= 200 < 300 | >= 300 |
|---|---|---|---|---|---|
| Filling level 25 L | 25.1 L | 25.7 L | 26.2 L | 26.8 L | 27.3 L |
| Filling level 20 L | 21.3 L | 21.8 L | 22.3 L | 22.8 L | 23.2 L |

**CLOSURES AND FITTINGS:**

| #: Screw cap | Producer | Drawings | Material | Gasket | Torque |
|---|---|---|---|---|---|
| 1: 60 mm | Tri-Sure | TSF-504224-2 | HDPE, details in report | Washer, expanded PE | 25 Nm |
| 2: 60 mm | Tri-Sure | F4P-2015 | HDPE, details in report | Wad, expanded PE | 25 Nm |
| 3: 60 mm | Tri-Sure | F4P-2015 | HDPE, details in report | Washer, expanded PE | 25 Nm |
| 4: Vented 60 mm | Tri-Sure | TSF-504351-2 | HDPE, details in report | Washer, expanded PE | 25 Nm |
| 5: 60 mm | Bergi-Plast GmbH | 00-1836 | HDPE, details in report | Washer, EPE 300 | 25 Nm |
| 7: 60 mm | Kunststoff-technik | V 6170, SK 61-6 R 13.09.12 | HDPE, details in report | Wad, induction liner; paper/ ALU | 25 Nm |
| 8: 60 mm | United caps | 09S41LB13-01P | HDPE, details in report | Wad, induction liner | 25 Nm |
| 9: 25 mm | Modulpac AB | 25PMPP REV 3 | HDPE, details in report | Wad, PET/ Alkozell/ PET | 3 Nm |
| 10: 60 mm | United caps | BV0600C B | HDPE, details in report | Wad, Alu30my/ PET12my/ PE60my | 25 Nm |
| 11: Vented 60 mm, S11 | Tri-Sure | TSF-505512-1 | HDPE, details in report | Wad, expanded PE | 25 Nm |
| 12: 60 mm CB free | Tri-Sure | TSF-506492 | HDPE, details in report | Washer, expanded PE | 25 Nm |
| 13: Vented 60 mm | Bergi-Plast GmbH | 00-1837 | HDPE, details in report | Washer, EPE 300 | 20 Nm |



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|---|---|---|---|---|---|
| 14: 60 mm, S16 | Tri-Sure | TSF-505972 | HDPE, details in report | Washer, expanded PE | 25 Nm |
| 15: Vented 60 mm, S17 | Tri-Sure | TSF-505920 | HDPE, details in report | Wad, expanded PE | 25 Nm |






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**AUTHORITY:**
NET issues this certification pursuant to delegated authority from the Norwegian Directorate for Civil Protection (DSB), in accordance with the Regulation of 1 April 2009 No. 384 on the land transport of dangerous goods, Chapter 6a (ref. 2023/4375 PRAX). NET is designated as the competent body for allocation of the UN mark on packagings, including IBCs and large packagings, as published by the United Nations (UNECE) list of competent authorities.
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.

**APPLICABLE REGULATIONS:**
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 PERFORMED:**
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

**SCOPE OF APPROVAL:**
The packaging is approved for Packing Groups II and III for liquid substances covered by the standard liquids specified in the table below.
The liquids identified by letters A-F refer to the standard liquids specified in ADR 6.1.6.1. Chemical compatibility with the relevant standard liquid has been demonstrated in accordance with ADR 6.1.5.2.6.
Dangerous substances that may be transported in the packaging on the basis of chemical compatibility with these standard liquids are identified in the Assimilation List in ADR 4.1.1.21.6.
Where the provisions for collective entries apply, a substance may only be transported if the approved standard liquid has a relative density equal to or greater than that of the substance to be transported.
The packaging shall always be used in accordance with the requirements applicable to the relevant UN number, classification and packing instruction.

Prior to reuse, all UN-approved packagings intended for the transport of dangerous goods shall be inspected to ensure that they remain free from damage, corrosion and contamination and continue to comply with the approved design type.
All functional components, including closures, gaskets and valves, shall remain intact and fully operational. Packagings showing signs of reduced mechanical integrity shall be reconditioned or repaired,


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where permitted, or permanently withdrawn from service.
Packagings that no longer comply with these requirements shall not be reused for the transport of dangerous goods, in accordance with ADR 4.1.1.9.

**APPROVED CONTENT:**

| Liquids | Max. relative density | Max. vapour pressure, kPa at +50°C | Packaging#/ Screw cap# |
|---|---|---|---|
| Standard liquid A: Wetting Solution | 1.2 | 171 | All items except vented caps |
| Standard liquid A: Wetting Solution | 1.4 | 171 | 3 & 6/ 1,7,12, 14, 15 & 9 |
| Standard liquid B: Acetic Acid | 1.2 | 171 | All items except vented caps |
| Standard liquid B: Acetic Acid | 1.4 | 171 | 3 & 6/ 1,12, 14, 15 & 9 |
| Standard liquid C: n-Butyl acetate | 1.0 | 171 | All items except vented caps |
| Standard liquid D: Mixture of hydrocarbons | 1.0 | 171 | All items except vented caps |
| Standard liquid D: Mixture of hydrocarbons | 1.4 | 171 | 3 & 6/ 1,7,12, 14, 15 & 9 |
| Standard liquid E: Nitric Acid | 1.4 | 171 | 2 & 5/ 1-7, 9, 11, 13,14 & 15 |
| Standard liquid F: Water | 1.9 | 171 | All items except vented caps |
| Nitric acid 55 - 62% | 1.4 | 171 | 2 & 5/ 5,7 & 9 |
| Standard liquid A: Wetting Solution | 1.5 | 171 | 3/ 1,3,5, 14, 15 & 9 |
| Standard liquid D: Mixture of hydrocarbons | 1.5 | 171 | 3/ 1,3,5, 14, 15 & 9 |
| Standard liquid E: Nitric Acid | 1.5 | 171 | 3/ 1,3,5, 14, 15 & 9 |
| Standard liquid C: n-Butyl acetate | 1.3 | 171 | 3/ 1,3,5, 14, 15 & 9 |

**DOCUMENTS FORMING THE BASIS FOR APPROVAL:**

| Report id. | Date | Issued by | Scope |
|---|---|---|---|
| NET0356C | 22.06.2016 | NET | Type approval |
| NET0356C2 | 08.08.2016 | NET | Additional test, MoH |
| NET0356D | 22.06.2016 | NET | Type approval |
| NET0356D2 | 08.08.2016 | NET | Additional type test, MoH, n-Ba |
| NET03TE28 | 02.09.2016 | NET | Calculation of production weights |
| NET03TE29 | 02.09.2016 | NET | Technical evaluation, pallet |


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| NET0356D3 | 11.10.2016 | NET | Additional type test, MoH, Ws |
| NET0356D4-K | 24.11.2016 | NET | Additional type test, cap 3 & 9 |
| NET0356D5 | 31.01.2017 | NET | Additional type test, MoH anti-glug |
| NET0366C2 | 21.10.2019 | NET | Additional type test, Na 62% |
| NET03TE42 | 01.06.2021 | NET | Technical evaluation |
| NET0366C3 | 19.09.2023 | NET | Additional type test, increast density |
| NET0366C4 | 21.02.2024 | NET | Additional type test, increast density 1.4 |
| NET0366C5K | 14.05.2024 | NET | Additional type test, increast density 1.5 |
| NET0366C6K | 24.06.2024 | NET | Additional type test, i d 1.5 cap #3 |
| NET0366C9 | 31.01.2025 | NET | Additional type test, i d 1.4 vent WS |
| NET0366C10 | 06.05.2025 | NET | Additional type test, i d 1.3 vent n-Ba |
| NET03TE44 | 19.05.2025 | NET | Vented caps |
| NET0366C11 | 09.09.2026 | NET | Additional test, cap 7 MoH &WS 1.4 |
| NET03TE50 | 20.10.2026 | NET | Technical evaluation, S17 |

**VALIDITY:**
This approval is valid for five (5) years, provided no modifications are made to the packaging design, materials, dimensions, closure system, or method of construction.
The certificate may be withdrawn at any time.
The published version on www.net17025.com/Sertifisering/UN_ADR/cid/30758/ shall always be considered the valid one.
The certificate holder/manufacturer must notify NET Certification of any changes that may influence transport safety.
Continued validity requires 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 meeting ADR requirements and guidelines in NS-EN ISO 16106:2020.

**TEST METHODS AND STANDARDS:**
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.

NORSK AKKREDITERING TEST 259


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BREVIK, NORWAY **28.10.2026** CERTIFICATE IS VALID UNTIL: **31.05.2030**

Mathias Werner
Certification Officer

Rune Madsen Fink
Control Officer

*Nordisk Emballasje Testing Certification*



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