



**PRODUCT APPROVAL OF PACKAGING
FOR TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET0366C**

HOLDER OF CERTIFICATE:
Greif Sweden AB

MANUFACTURER: Greif Sweden AB, Box 203, SE-311 23 Falkenberg, Sweden

MARKING ON PACKAGING:  **3H1/Y1.9/200/YR/N/NET0366C - ID**

"YR" to be replaced with the two last digits of the year.

"ID" to be replaced by any identification as decided by the manufacturer.

The packaging shall also be appropriately marked with the month of the manufacture.

PRODUCT:

| Packaging code | Description | Drawings | Material |
|----------------|--|-------------------------------|----------|
| 3H1 / 20 L | Plastics jerricans, non-removable head | FB-0021 Rev B, FB-0001 Rev B, | HDPE |
| 3H1 / 25 L | Plastics jerricans, non-removable head | FB-0022 Rev B, FB-0002 Rev B | HDPE |
| 3H1 / 27.5 L | Plastics jerricans, non-removable head | FB-0023 Rev B, FB-0003 Rev B | HDPE |

CLOSING MECHANISM:

| #: Screw cap | Producer | Drawings | Material | Gasket | Torque |
|-----------------|--------------------|---------------|----------|-----------------------|--------|
| 1: 60 mm | Tri-Sure | TSF-504224-2 | HDPE | Washer, expanded PE | 25 Nm |
| 2: 60 mm | Tri-Sure | F4P-2015 | HDPE | Wad, expanded PE | 25 Nm |
| 3: 60 mm | Tri-Sure | F4P-2015 | HDPE | Washer, expanded PE | 25 Nm |
| 4: Vented 60 mm | Tri-Sure | TSF-504351-2 | HDPE | Washer, expanded PE | 25 Nm |
| 5: 60 mm | Bergi Plast | 00-1836 | HDPE | Washer, EPE 300 | 25 Nm |
| 7: 60 mm | Kunststoff-technik | KTH55-SK61-16 | HDPE | Washer, expanded PE | 25 Nm |
| 8: 60 mm | United caps | 09S41LB13-01P | HDPE | Wad, Induction liner | 25 Nm |
| 9: 25 mm | Modulpac AB | 25PMO Rev. 3 | HDPE | Wad, PET/Alkozell/PET | 3 Nm |

| | | | | | |
|------------------|-------------|--------------|------|-------------------------------------|-------|
| 10: 60 mm | United caps | BV0600C B | HDPE | Wad, ALU30my/ PET12my/PE60 my | 25 Nm |
| 11: Vented 60 mm | Tri-Sure | TSF-505512-1 | HDPE | Washer, expanded PE | 25 Nm |


DIMENSIONS:

| # Jerrican weight, g | Volume, l | Height, mm | Width, mm | Length, mm | Neck size, mm |
|----------------------|-----------|------------|-----------|------------|---------------|
| 1: 930 - 1388 | 20.0 | 376 | 260 | 295 | 60 |
| 2: 980 - 1388 | 20.0 | 376 | 260 | 295 | 60 |
| 3: 1071 - 1598 | 25.0 | 441 | 260 | 295 | 60 |
| 4: 1127 - 1598 | 25.0 | 441 | 260 | 295 | 60 |
| 5: 1124 - 1676 | 27.5 | 470 | 260 | 295 | 60 |

APPROVAL:

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 - 06/6950-7/BJRU.

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.

APPROVAL IS VALID FOR:

The packaging is valid for packaging group II and III containing liquid substances that do not adversely affect the packaging materials.

Permeability test has been carried out according to ADR 6.1.5.7. Compatibility testing has been carried out according to ADR/RID with the content listed below:

| Content | Max. relative density | Max. vapour pressure, kPa at +50°C | Jerrican # | Closure # |
|---------------------|-----------------------|------------------------------------|------------|-----------------|
| White spirit | 1.0 | 200 | All items | All items |
| n-Butylacetate | 1.0 | 200 | All items | All items |
| Acetic acid | 1.2 | 200 | All items | All items |
| Wetting solution | 1.2 | 200 | All items | All items |
| Water | 1.9 | 200 | All items | All items |
| Nitric acid 55 % | 1.4 | 200 | 2 and 4 | 1 - 7, 9 and 11 |
| Nitric acid 55-62 % | 1.4 | 200 | 2 and 4 | 5, 7 and 9 |

DOCUMENTS BASED UPON FOR APPROVAL:

| Report id. | Date | Issued by | Scope |
|-------------|----------|-----------|-----------------------------------|
| NET0356C | 22.06.16 | NET | Type approval |
| NET0356C2 | 08.08.16 | NET | Additional test, MoH |
| NET0356D | 22.06.16 | NET | Type approval |
| NET0356D2 | 08.08.16 | NET | Additional test, MoH, n-Ba |
| NET03TE28 | 02.09.16 | NET | Calculation of production weights |
| NET03TE29 | 02.09.16 | NET | Technical evaluation, pallet |
| NET0356D3 | 11.10.16 | NET | Additional test, MoH, Ws |
| NET0356D4-K | 24.11.16 | NET | Additional test, cap 3 & 9 |
| NET0356D5 | 31.01.17 | NET | Additional test, MoH, anti-glug |
| NET0366C2 | 13.05.19 | NET | Additional test, Na |

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.



BREVIK, NORWAY

08.07.2019 CERTIFICATE IS VALID UNTIL:

31.07.2024



Geir Morten Johansen
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing AS Certification

