



**PRODUCT APPROVAL OF PACKAGING
FOR TRANSPORTATION OF DANGEROUS GOODS
CERTIFICATE NO.: NET9707A**

HOLDER OF CERTIFICATE:
Muovi-heljanko OY

MANUFACTURER: Muovi-heljanko OY, Mustanlähteentie 5, 07230 Monninkylä, Finland

MARKING ON PACKAGING:  **1H1/Y1.2/120/YR/N/NET9707A - 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, Plastics jerricans | non-removable head, 2 l | 0051.00-19-19 230419 | HDPE details in report |

CLOSING MECHANISM:

| #: Screw cap | Producer | Drawings | Material | Gasket | Torque, Nm |
|--------------|-------------|---------------|---------------|-----------|------------|
| 32 mm | Modulpac AB | 32NDO 7320005 | Marlex 5202BN | PET liner | 3 |



DIMENSIONS:

| #: Weight of jerrican, g | Volume, l | Diameter, mm | Height, mm | Neck size, mm |
|--------------------------|-----------|--------------|------------|---------------|
| 94.7 - 100.0 | 2.0 | 109.0 | 318.4 | 32 mm |

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. 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 |
|---|-----------------------|------------------------------------|
| Liquids covered by Wetteing solution according to ADR assimilation list | 1.2 | 125.7 |
| Liquids covered by acetic acid according to ADR assimilation list | 1.2 | 125.7 |
| Sinol 100, UN 1170 | 0.9 | 125.7 |
| Masinol 100, UN1993 | 0.8 | 125.7 |
| Ethanol solution, UN 1170 | 1.2 | 125.7 |

DOCUMENTS BASED UPON FOR APPROVAL:

| Report id. | Date | Issued by | Scope |
|------------|------------|-----------|----------------------|
| NET9707A | 20.11.2019 | NET | Type approval |
| NET97TE04 | 21.11.2019 | NET | Technical evaluation |

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.



PORSGRUNN, NORWAY

21.11.2019 CERTIFICATE IS VALID UNTIL:

30.11.2024



Geir Morten Johansen
Certification Officer



Rune Madsen Fink
Control Officer

Nordisk Emballasje Testing AS Certification

