# DIBUTYL ETHER AR

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□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: 3270C
□□ □□□□: 12/24/2018 □□ □□□□: 3/25/2025 □□ □□: 12/24/2018 □□: 1.0

## □□ 1: □□□□□ □□□ □□ □□

### 1.1. □□□□

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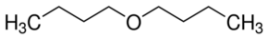
|---|---|---|
| □□ □□ | : | □□ |
| □□□ | : | DIBUTYL ETHER AR |
| EC □□ □□ | : | 603-054-00-9 |
| EC □□ | : | 205-575-3 |
| CAS □□ | : | 142-96-1 |
| □□ □□ | : | 3270C |
| □□ □□ | : | Ethers |
| □□□ | : | C8H18O |
| □□ □□ | : |  |
| □□□ | : | Butyl ether, Di-n-butyl ether, n-Butyl ether |

### 1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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| | | |
|---|---|---|
| □□/□□□ □□ □□ | : | Industrial<br>For professional use only |
| □□□□/□□□□ □□ | : | □□<br>Laboratory chemicals<br>□□□ □□ |

### 1.3. □□□□□□□□□ □□□ □□

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107 Wode House Road, Jehangir Villa, Colaba
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info@lobachemie.com, www.lobachemie.com

### 1.4. □□□□□□

| | | |
|---|---|---|
| □□ □□ □□ | : | + 91 22 6663 6663 (9:00am - 6:00 pm) |

## □□ 2: □□□·□□□

### 2.1. □□□·□□□ □□

**Regulation (EC) No.1272/2008 [CLP]□ □□ □□**

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| □□□ □□, □□ 3 | H226 |
| □□ □□□/□□ □□□, □□ 2 | H315 |
| □□ □ □□□/□ □□□, □□ 2 | H319 |
| □□□□□□ □□ - 1□ □□, □□ 3, □□□□ □□ | H335 |
| □□□□ □□□ – □□, □□ 3 | H412 |

□□(H) □□ □ EUH □□ □□: 16□ □□.

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### 2.2. □□□□□□□□ □□□ □□□□ □□

**□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]**

□□ □□ □□□□(CLP) :

GHS02 GHS07

□□□ (CLP) : □□

□□·□□ □□ (CLP) : H226 - □□□ □□ □ □□.
H315 - □□□ □□□ □□□.
H319 - □□ □□ □□□ □□□.
H335 - □□□ □□□ □□□ □ □□.
H412 - □□□ □□□ □□ □□□□□□□ □□□.

□□ □□ □□(CLP) : P210 - □·□□□ □□·□□□·□□·□□ □□□□□□□□ □□□□□□. □□.
P233 - □□□ □□□ □□□□□□.
P261 - □□·□·□□·□□□·□□·□□□□ □ □□□ □□□□.
P273 - □□□□ □□□□ □□□.
P303+P361+P353 - □□(□□ □□□□)□ □□□ □□□ □□ □□□ □□ □□□□. □□□ □□ □□□□ .
P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □ □□□.

## 2.3. □□ □□

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

# □□ 3: □□□□□ □□ □ □□□

## 3.1. □□□□

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| □□ | □□□□ | % |
|---|---|---|
| DIBUTYL ETHER | CAS □□: 142-96-1<br>EC □□: 205-575-3<br>EC □□ □□: 603-054-00-9 | 100 |

# □□ 4: □□□□□□□

## 4.1. □□□□ □□

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□□□ □ : □□ □□□□□. Do not induce vomiting.

## 4.2. □□ □ □□□ □□ □□□ □□ □ □□

□□ □ □□/□□ : □□□ □□□ □□□ □ □□.

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## 4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

# □□ 5: □□·□□□ □□□□

## 5.1. □□□ □□□

□□□ □□□ : Carbon dioxide. Dry powder. Foam. Water spray.

□□□□ □□□ : Do not use a heavy water stream.

### 5.2. □□□□□□□□ □□□ □□ □□□

□□ □□ : □□□ □□ □ □□.

□□ □□ : May form flammable/explosive vapour-air mixture.

### 5.3. □□□□ □□□□ □ □□□□

□□ □□ □ □□ : Do not enter fire area without proper protective equipment, including respiratory protection.

## □□ 6: □□□□□□ □□□□

### 6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

□□ □□ : □□□□ □□□□□. Use special care to avoid static electric charges. No open flames. No smoking.

□□□ □□ □□

□□ □□ : Evacuate unnecessary personnel.

□□ □□ □□

□□ □□ : □□□ □□ □□□□ □□□□□.

□□ □□ : Ventilate area.

### 6.2. □□□ □□□□ □□ □□□ □□□□

□□□□ □□□ □□ □□□□□□ □□□.

### 6.3. □□ □□ □□ □□

□□ □□ : □□□□ □□□□. On land, sweep or shovel into suitable containers.

### 6.4. □□ □□ □□

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## □□ 7: □□ □ □□□□

### 7.1. □□□□□□

□□ □ □□□□□ □□ □□ : Handle empty containers with care because residual vapours are flammable.

□□□□□□ : □□ □ □□□ □□□ □□□□. Keep away from sources of ignition - No smoking. □□ □□ □□□ □ □ □ □□□□ □□□□□. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.

□□ □□ : □ □□□ □□□ □□□ □□□, □□□□ □□□□ □□□. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. □□□□ □□□ □□□ □□□ □□ □□

□□□ □□ : Proper grounding procedures to avoid static electricity should be followed. □□□ □□□□□ □□□□ □. □□□ □□·□□·□□.□□□ □□□□□.

□□ □□ : Keep in fireproof place. □□□ □□□ □□□□□.

□□□ □ □□ : Heat sources.

### 7.3. □□ □□ □□

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## □□ 8: □□□□ □ □□□□□

### 8.1. □□ □□ □□

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## 8.2. □□□□

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□ □□:

Chemical goggles or safety glasses

**Skin protection**

□□ □□:

Wear a mask

□ □□:

Protective gloves

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□□□ □□:

Wear appropriate mask

# □□ 9: □□□□□ □□

## 9.1. □□□□ □□□□□ □□□ □□ □□

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| □□□ □□ | : | □□ |
| □□ | : | Colourless. |
| □□ | : | Clear liquid. |
| □□□ | : | 130.23 g/mol |
| □□ | : | mild. ethereal. |
| □□ □□ | : | □□□□ |
| □□□ | : | □□□□ |
| □□□ | : | -95 °C |
| □□ □□□□ □□□ □□ | : | 141 °C |
| □□□ | : | Flammable<br>□□□ □□ |
| □□ □□□ | : | 0.9 vol % |
| □□ □□□ | : | 8.5 vol % |
| □□□ | : | 25 °C |
| □□□□ □□ | : | 175 °C |
| □□ □□ | : | □□□□ |
| pH | : | □□□□ |
| □□(□□□) | : | 0.964 mm²/s |
| □□(□□□□) | : | 0.741 cP at 15 °C |
| □□□ | : | □: 0.3 g/l at 25 °C - Immiscible with water<br>□□□: Miscible with Ethanol<br>□□□: Miscible with Acetone |
| Partition coefficient n-octanol/water (Log Kow) | : | □□□□ |
| Partition coefficient n-octanol/water (Log Pow) | : | 5 |
| □□□ | : | 4.6 hPa at 20 °C |
| 50°C□□□ □□□ | : | □□□□ |
| □□ | : | 0.769 g/cm³ at 20 °C |
| □□ | : | □□□□ |
| 20°C□□□ □□ □□ □□ | : | 4.5 (Air = 1) |
| □□ □□ | : | □□□□ |

### 9.2. □ □□ □□□□

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□□□ : 1.3992 at 20 °C/D

## □□ 10: □□□ □ □□□

### 10.1. □□□

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### 10.2. □□□ □□□

Stable under normal conditions.

### 10.3. □□ □□□ □□□

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### 10.4. □□□ □ □□

Open flame. □. Sparks.

### 10.5. □□□ □ □□

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### 10.6. □□□ □□□□ □□□□

May release flammable gases.

## □□ 11: □□□ □□ □□

### 11.1. □□ (EC) No 1272/2008□ □□□, □□□ □□□ □□ □□

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| DIBUTYL ETHER (142-96-1) | |
|---|---|
| □□ □□□□ □□ (1□ □□) | □□□ □□□ □□□ □ □□. |

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| DIBUTYL ETHER AR (142-96-1) | |
|---|---|
| □□(□□□) | 0.964 mm²/s |

| DIBUTYL ETHER (142-96-1) | |
|---|---|
| □□(□□□) | 0.964 mm²/s |

### 11.2. □□ □□ □□

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## □□ 12: □□□ □□□ □□

### 12.1. □□

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### 12.2. □□□ □ □□□

| DIBUTYL ETHER AR (142-96-1) | |
|---|---|
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| DIBUTYL ETHER (142-96-1) | |
|---|---|
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### 12.3. □□ □□□

| DIBUTYL ETHER (142-96-1) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 5 |

### 12.4. □□ □□□

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### 12.5. PBT □ vPvB □□ □□

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### 12.6. □□□ □□ □□

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### 12.7. □□ □□ □□

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## □□ 13: □□□ □□□□

### 13.1. □□□ □□□

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| □□ □□ | : | Handle empty containers with care because residual vapours are flammable. |

## □□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

### 14.1. UN □□ □□ ID □□

| | | |
|---|---|---|
| UN-□□ (ADR) | : | UN 1149 |
| UN-□□ (IMDG) | : | UN 1149 |
| UN-□□ (IATA) | : | UN 1149 |
| UN-□□ (ADN) | : | UN 1149 |
| UN-□□ (RID) | : | UN 1149 |

### 14.2. UN □□ □□□

| | | |
|---|---|---|
| □□ □□□ (ADR) | : | □□□□ □□ |
| □□ □□□ (IMDG) | : | DIBUTYL ETHERS |
| □□ □□□ (IATA) | : | Dibutyl ethers |
| □□ □□□ (ADN) | : | □□□□ □□ |
| □□ □□□ (RID) | : | □□□□ □□ |

| | | |
|---|---|---|
| □□ □□ □□ (ADR) (ADR) | : | UN 1149 □□□□ □□, 3, III, (D/E) |
| □□ □□ □□ (IMDG) | : | UN 1149 DIBUTYL ETHERS, 3, III |
| □□ □□ □□ (IATA) | : | UN 1149 Dibutyl ethers, 3, III |
| □□ □□ □□ (ADN) | : | UN 1149 □□□□ □□, 3, III |
| □□ □□ □□ (RID) | : | UN 1149 □□□□ □□, 3, III |

## 14.3. □□□□□ □□□ □□

### ADR

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| □□□□□ □□□ □□ (ADR) | : | 3 |
| □□ □□ (ADR) | : | 3 |
| | : | |

### IMDG

| | | |
|---|---|---|
| □□□□□ □□□ □□ (IMDG) | : | 3 |
| □□ □□ (IMDG) | : | 3 |
| | : | |

### IATA

| | | |
|---|---|---|
| □□□□□ □□□ □□ (IATA) | : | 3 |
| □□ □□ (IATA) | : | 3 |
| | : | |

### ADN

| | | |
|---|---|---|
| □□□□□ □□□ □□ (ADN) | : | 3 |
| □□ □□ (ADN) | : | 3 |
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### RID

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| □□□□□ □□□ □□ (RID) | : | 3 |
| □□ □□ (RID) | : | 3 |
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## 14.4. □□□□

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| □□ □□ (ADR) | : | III |
| □□ □□(IMDG) | : | III |
| □□ □□ (IATA) | : | III |
| □□ □□(ADN) | : | III |
| □□ □□(RID) | : | III |

## 14.5. □□ □□□

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| EmS-No. (□□) | : | F-E |

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|---|---|---|
| EmS-No. (□□) | : | S-D |
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## 14.6. □□□□ □□ □□ □□□□

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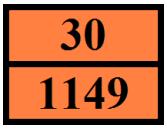
| □□ □□ (ADR) | : | F1 |
| □□□(ADR) | : | 5l |
| □□□(ADR) | : | E1 |
| □□ □□(ADR) | : | P001, IBC03, LP01, R001 |
| □□ □□ □□ □□ □□(ADR) | : | MP19 |
| □□□ □□ □ □□ □□□□ □□ (ADR) | : | T2 |
| □□□ □□ □ □□ □□□□ □□ □□ (ADR) | : | TP1 |
| □□ □□(ADR) | : | LGBF |
| □□ □□□ □□ | : | FL |
| □□ □□(ADR) | : | 3 |
| □□ □□ □□ □□ - □□(ADR) | : | V12 |
| □□ □□ □□ □□ - □□(ADR) | : | S2 |
| □□ □□ □□(Kemler □□) | : | 30 |
| Orange plates (□□□□□□) | : |   |
| □□ □□ □□ (ADR) | : | D/E |
| EAC □□ | : | 3Y |

□□ □□

| | | |
|---|---|---|
| □□ □□(IMDG) | : | 5 L |
| □□□(IMDG) | : | E1 |
| □□ □□ (IMDG) | : | P001 |
| IBC □□ □□(IMDG) | : | IBC03 |
| □□ □□ (IMDG) | : | T2 |
| □□ □□ □□ (IMDG) | : | TP1 |
| □□ □□ (IMDG) | : | A |
| □□□ □□□□ (IMDG) | : | Colourless liquids with a mild ether-like odour. Explosive limits: 0.9% to 8.5%. Immiscible with water. normal-DIBUTYL ETHER: flashpoint 25°C c.c. |
| MFAG-□□ | : | 128 |

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|---|---|---|
| PCA □□ □□(IATA) | : | E1 |
| PCA □□ □□(IATA) | : | Y344 |
| PCA □□ □□ □□ □□□(IATA) | : | 10L |
| PCA □□ □□(IATA) | : | 355 |
| PCA □□ □□□(IATA) | : | 60L |
| CAO □□ □□(IATA) | : | 366 |
| CAO □□ □□□(IATA) | : | 220L |
| ERG □□(IATA) | : | 3L |

□□ □□ □□

| | | |
|---|---|---|
| □□ □□(ADN) | : | F1 |
| □□□(ADN) | : | 5 L |
| □□□(ADN) | : | E1 |
| □□ □□(ADN) | : | PP, EX, A |
| □□(ADN) | : | VE01 |
| □□ □□/□□□ □□(ADN) | : | 0 |

□□ □□

| | | |
|---|---|---|
| □□ □□(RID) | : | F1 |
| □□ □□(RID) | : | 5L |
| □□□(RID) | : | E1 |
| □□ □□ (RID) | : | P001, IBC03, LP01, R001 |
| □□ □□ □□ □□ □□(RID) | : | MP19 |
| □□□ □□ □ □□ □□□□ □□ (RID) | : | T2 |

| | | |
|---|---|---|
| □□□ □□ □ □□ □□□□ □□ □□ (RID) | : | TP1 |
| RID □□□ □□ □□(RID) | : | LGBF |
| □□ □□(RID) | : | 3 |
| □□ □□ □□ □□ - □□(RID) | : | W12 |
| □□ □□□ | : | CE4 |
| □□□ □□ □□ (RID) | : | 30 |

### 14.7. □□□□□□□(IMO)□ □□ □□ □□ □□

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## □□ 15: □□ □□□□

### 15.1. □□, □□ □ □□□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

**EU □□**

**REACH □□□ XVII (□□ □□)**

| EU restriction □□ (REACH Annex XVII) | |
|---|---|
| □□ □□ | □□ □□ |
| 3(a) | DIBUTYL ETHER AR |
| 3(b) | DIBUTYL ETHER AR |
| 3(c) | DIBUTYL ETHER AR |
| 40. | DIBUTYL ETHER AR |

**REACH □□□ XIV (□□ □□)**

REACH □□□ XIV (□□ □□)□ □□□□ □□

**REACH □□ □□ □□ (SVHC)**

REACH □□ □□ □□□ □□□ □□□ □□□□ □□

**PIC □□ (□□□□□□)**

PIC □□□ □□□□ □□ (□□ EU 649/2012)

**POP □□ (□□□ □□ □□□□)**

POP □□□ □□□□ □□ (□□ EU 2019/1021)

**Ozone Regulation (2024/590)**

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

**□□□□ □□(428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

**□□ □□□□ □□ (2019/1148)**

□□□ □□□□ □□(□□ □□□□□ □□ □ □□□ □□ □□ EU 2019/1148)□ □□□ □□ □□□□ □□

**□□ □□□□ □□ (273/2004)**

□□ □□□□ □□□ □□□ □□□ □□□□ □□(□□ □ □□□□ □□□ □□ □□□ □□□□ □□ □□□ □□ □ □□□ □□ □□ EC 273/2004)

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|---|---|---|
| VOC ordinance (ChemVOCFarbV) | : | |
| WGK | : | WGK 1, □□ □□ □□ □□ (Classification according to AwSV; ID □□ 73). |
| □□ □□ □□(12. BImSchV) | : | □□ □□ □□(12. BImSchV)□ □□ □□ □□ |

**□□□□**

| | | |
|---|---|---|
| SZW-lijst van kankerverwekkende stoffen | : | □□□ □□□□ □□□□□. |
| SZW-lijst van mutagene stoffen | : | □□□ □□□□ □□□□□. |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : | □□□ □□□□ □□□□□. |

| | | |
|---|---|---|
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : | □□□ □□□□ □□□□□. |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : | □□□ □□□□ □□□□□. |

□□□

| | | |
|---|---|---|
| Class for fire hazard | : | □□ II-1 |
| Store unit | : | 5 liter |
| □□ □□ □□ □□ | : | R10 <H226;H315;H319;H335;H412>; □□□ □□ □□□ □□ □□ □□ □□□ □□□□ □□□ |
| □□□ □□ □□ | : | 18□ □□ □□□ □□ □□□ □□□□□ |

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| □□□ □□ □□ | : | Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).<br>Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).<br>The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).<br>Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).<br>Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).<br>Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).<br>The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)<br>Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).<br>Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).<br>ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891) |

### 15.2. □□ □□ □□□ □□

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## □□ 16: □ □□ □□□□

| □H□ □ EUH□ □□: | |
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| □□ □□□□ 3 | □□□□ □□□ – □□, □□ 3 |
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| □□ □□□□ □□ (1□ □□) 3 | □□□□□□ □□ - 1□ □□, □□ 3, □□□□ □□ |
| □□ □□□ 2 | □□ □□□/□□ □□□, □□ 2 |
| H226 | □□□ □□ □ □□. |
| H315 | □□□ □□□ □□□. |
| H319 | □□ □□ □□□ □□□. |
| H335 | □□□ □□□ □□□ □ □□. |
| H412 | □□□ □□□ □□ □□□□□□ □□□. |

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