

PIVALOYL CHLORIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□ REACH □□ (EC) 1907/2006 □□ □□
□□ □□□□: 12/17/2018 □□ □□□□: 5/7/2025 □□ □□: 12/17/2018 □□: 1.0

□□ 1: □□□□ □□ □□ □□

1.1. □□□□

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: PIVALOYL CHLORIDE EXTRA PURE

IUPAC □□

: 2,2-Dimethylpropionyl chloride

EC □□

: 221-921-6

CAS □□

: 3282-30-2

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: 05298

□□ □□

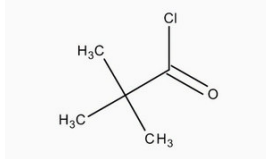
: Acid chlorides

□□ □□

: C5H9OCl

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:



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: Trimethylacetyl chloride; Pivalyl chloride; neo-Pentanoyl chloride

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□

: Industrial

□□/□□□ □□ □□

For professional use only

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: Laboratory chemicals

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1.3. □□□□□□□□ □□□ □□

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INDIA

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info@lobachemie.com, www.lobachemie.com

1.4. □□□□□□

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

□□ 2: □□□·□□□□

2.1. □□□·□□□□ □□

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

□□□ □□, □□ 2

H225

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H290

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H302

□□ □□ (□□: □□) □□ 1

H330

□□ □□□/□□ □□□, □□ 1

H314

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PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

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□□ (EC) No. 1272/2008 □□ □□ □□ [CLP]

□□ □□ □□□□ (CLP)

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GHS02 GHS05 GHS06

□□□ (CLP)

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□□·□□ □□ (CLP)

- : H225 - □□□□ □□ □ □□.
- H290 - □□□ □□□□ □ □□.
- H302 - □□□ □□□.
- H314 - □□□ □□ □□□ □ □□□ □□□.
- H330 - □□□□ □□□□.

□□ □□ □□ (CLP)

- : P210 - □·□□□ □□·□□□·□□·□□ □□□□□□ □□□□□□. □□.
- P280 - □□□□, □□□, □□□, □□□□□ □(□) □□□□□□.
- P301+P310 - □□□□ □□ □□ □□ □□ □□ □□ □(□) □□□□□.
- P303+P361+P353 - □□(□□ □□□□)□ □□□ □□□ □□ □□□□ □□ □□□□. □□□ □□ □□□□.
- P304+P340 - □□□□ □□□ □□□ □□ □□□ □□□□ □□ □□□ □□□□□□.
- P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□□□□□□. □□ □□□□.

2.3. □□ □□

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

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3.1. □□□□

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□□	□□□□	%
PIVALOYL CHLORIDE	CAS □□: 3282-30-2 EC □□: 221-921-6	100

□□ 4: □□□□□□

4.1. □□□□ □□

- □□ □□ : Call a physician immediately.
- □□ : □□□ □□□ □□ □□□ □□□ □□ □□□ □□□□□. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice. Call a physician immediately.
- □□□□ □□ : □□□ □□□ □□ □□□□ □□□□□□. □□□ □□ □□□□[□□ □□□□□□]. □□□ □□ □□□ □□ □□□ □. Call a physician immediately.
- □□□□ □□ : □□□□ □□□□□□ □□□□□□. □□ □□□□. □ □□ □□ □□□□ □□□□□□. Call a physician immediately.
- □□ : Rinse mouth out with water. If you feel unwell, seek medical advice. □□ □□□□□□. Do not induce vomiting. Call a physician immediately.
- First-aid measures for first aider : □□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□□.

4.2. □□ □ □□□ □□ □□□□ □□ □ □□

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- □ □□/□□ : □□□□ □□□□□.
- □□ □ □□/□□ : Burns.
- □□ □ □□/□□ : Serious damage to eyes.
- □ □□/□□ : □□□ □□□□. Burns.

PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

4.3. □□□□ □□ □□ □□ □□ □□ □□

Treat symptomatically.

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5.1. □□□ □□□

- □□□ : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam. Carbon dioxide.
- □□□ : Do not use extinguishing media containing water.

5.2. □□□□□□ □□□ □□ □□□

- □□ : □□□□ □□ □□□.
- □□ : □□□□ □□ □□ □□□ □□□.
- □□□□ □□□ □□ : Toxic fumes may be released.

5.3. □□□□ □□□□ □□□□

- □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
- □□ □□□ : Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

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6.1. □□□ □□□□ □□ □□□ □□□□ □□□□

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- □□ □□ : Wear recommended personal protective equipment.
- □□ : Avoid contact with skin, eyes and clothing. □□, □□□□ □□ □□. □□. □□/□□/□□□□/□□□□□□ □□(□) □□□□ □□□□. □□□□ □□ □□□ □□□ □□□ □□□ □□□ □□□.
- □□ □□ : Do not attempt to take action without suitable protective equipment. □□□□ □□ □□□□ □□□□□□. □□ □□□□ □□□ □□ 8: "□□□□ □□ □□□□□" □□□□□□.
- □□ : Stop release. Evacuate unnecessary personnel. □□□□ □□□□ □□ □□□□ □□□ □□□□.

6.2. □□□ □□□□ □□ □□□ □□□□

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6.3. □□ □□ □□ □□

- : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- □□ : Take up liquid spill into absorbent material. Clean up immediately by sweeping or vacuum. Clean contaminated surfaces with an excess of water. □□□ □□□ □□ □□□□□ □□□ □□ □□□ □□.
- □□ □□□□ : Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□

For further information refer to section 13.

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7.1. □□□□□□

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PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

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□□ □□ : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. □□ □□ □ □□□ □□□□□. □ □□□ □□□ □□□ □□□, □□□□ □□ □□ □□□. Always wash hands after handling the product.

7.2. □□□□ □□□ □□□ □□□ □□ □□

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□□ □□ : Store in original container. □□□ □ □□ □□ □□□□□. □□□ □□□ □□□□□. Keep in fireproof place. □□□□ □□□□□. □□□ □□□ □□□□□. Store in corrosive resistant container with a resistant inner liner. □□□ □□□□ □□□□□. □□□□□ □□ □□□□□.

□□□ □ □□ : □□.

□□□ : Store always product in container of same material as original container.

7.3. □□ □□ □□

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□□ 8: □□□□ □ □□□□□

8.1. □□ □□ □□

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8.2. □□□□

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□□□ □□□ □□: Ensure good ventilation of the work station.

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□□ □□□: Wear recommended personal protective equipment.

□□ □□ □□ □□:



□ □ □□ □□□

□ □□: Chemical goggles or safety glasses

Skin protection

□□ □□: Wear a mask

□ □□: Protective gloves

□□□ □□

□□□ □□: Wear appropriate mask

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PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□□ REACH □□ (EC) 1907/2006 □□ □□

□□ 9: □□□□□□ □□

9.1. □□□□ □□□□□□ □□□□ □□ □□

□□□□ □□	: □□
□□	: Colorless to light pink.
□□	: Clear liquid.
□□□□	: 120.58 g/mol
□□	: Pungent.
□□ □□	: □□□□
□□□□	: □□□□
□□□□	: -56 °C
□□ □□□□ □□□□ □□	: 105 – 106 °C
□□□□	: □□□□ □□ □□ □□
□□ □□□□	: 1.9 vol %
□□ □□□□	: 7.4 vol %
□□□□	: 13 °C - closed cup
□□□□ □□	: 455 °C
□□ □□	: □□□□
pH	: Acidic
□□(□□□□)	: 0.878 mm ² /s
□□(□□□□□)	: 0.86 mPa·s at 20 °C
□□□□	: □: Decomposes in contact with water
Partition coefficient n-octanol/water (Log Kow)	: □□□□
□□□□	: 40 mbar at 20 °C
50°C□□□□ □□□□	: □□□□
□□	: 0.98 g/cm ³ at 20 °C
□□	: □□□□
20°C□□□□ □□ □□ □□	: 4.2 (Air = 1.0)
□□ □□	: □□□□

9.2. □ □□ □□□□□

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□□ 10: □□□□ □□□□

10.1. □□□□

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10.2. □□□□ □□□□

Stable under normal conditions.

10.3. □□ □□□□ □□□□

No dangerous reactions known under normal conditions of use.

10.4. □□□□ □□□□

Open flame. □□□□. Overheating. □. □□□□ □□□□ □□□□□□. □□, □□□□, □□□□ □□ □□□□□□.

10.5. □□□□ □□□□

metals.

10.6. □□□□ □□□□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

□□ 11: □□□ □□ □□

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

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□□ □□□ □□ □□□ : Causes severe skin burns.
pH: Acidic

PIVALOYL CHLORIDE (3282-30-2)

pH	Acidic
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□□ □ □□ □□ □□□ : Assumed to cause serious eye damage
pH: Acidic

PIVALOYL CHLORIDE (3282-30-2)

pH	Acidic
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PIVALOYL CHLORIDE EXTRA PURE (3282-30-2)

□□(□□□)	0.878 mm ² /s
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PIVALOYL CHLORIDE (3282-30-2)

□□(□□□)	0.878 mm ² /s
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11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□ : Before neutralisation, the product may represent a danger to aquatic organisms.
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12.2. □□□ □□□□

PIVALOYL CHLORIDE EXTRA PURE (3282-30-2)

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PIVALOYL CHLORIDE (3282-30-2)

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12.3. □□ □□□

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12.4. □□ □□□

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PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

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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□□ □□

- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Disposal must be done according to official regulations.
- : Disposal must be done according to official regulations.
- : □□ □ □□□ □□□ □□□ □ □□. Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

14.1. UN □□ □□ ID □□

UN-□□ (ADR)

: UN 2438

UN-□□ (IMDG)

: UN 2438

UN-□□ (IATA)

: UN 2438

UN-□□ (ADN)

: UN 2438

UN-□□ (RID)

: UN 2438

14.2. UN □□ □□□

□□ □□□ (ADR)

: □□ □□□□□□□□

□□ □□□ (IMDG)

: TRIMETHYLACETYL CHLORIDE

□□ □□□ (IATA)

: Trimethylacetyl chloride

□□ □□□ (ADN)

: □□ □□□□□□□□

□□ □□□ (RID)

: □□ □□□□□□□□

□□ □□ □□ (ADR) (ADR)

: UN 2438 □□ □□□□□□□□, 6.1 (3+8), I, (C/D)

□□ □□ □□ (IMDG)

: UN 2438 TRIMETHYLACETYL CHLORIDE, 6.1 (3+8), I (19°C c.c.)

□□ □□ □□ (IATA)

: UN 2438 Trimethylacetyl chloride, 6.1 (3+8), I

□□ □□ □□ (ADN)

: UN 2438 □□ □□□□□□□□, 6.1 (3+8), I

□□ □□ □□ (RID)

: UN 2438 □□ □□□□□□□□, 6.1 (3+8), I

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)

: 6.1 (3, 8)

□□ □□ (ADR)

: 6.1, 3, 8



IMDG

□□□□□ □□□ □□ (IMDG)

: 6.1 (3, 8)

□□ □□ (IMDG)

: 6.1, 3, 8

PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□



IATA

□□□□□ □□□ □□ (IATA)

: 6.1 (3, 8)

ADN

□□□□□ □□□ □□ (ADN)

: 6.1 (3, 8)

□□ □□ (ADN)

: 6.1, 3, 8



RID

□□□□□ □□□ □□ (RID)

: 6.1 (3, 8)

□□ □□ (RID)

: 6.1, 3, 8



14.4. □□□□

□□ □□ (ADR)

: I

□□ □□ (IMDG)

: I

□□ □□ (IATA)

: I

□□ □□ (ADN)

: I

□□ □□ (RID)

: I

14.5. □□ □□□

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: □□□

EmS-No. (□□)

: F-E

EmS-No. (□□)

: S-C

□□ □□□□

: □□ □□□□ □□

14.6. □□□□ □□ □□ □□□□

□□ □□

□□ □□ (ADR)

: TFC

□□□ (ADR)

: 0

□□□ (ADR)

: E0

□□ □□ (ADR)

: P001

□□ □□ □□ □□ □□ (ADR)

: MP8, MP17

□□□ □□ □ □□ □□□□ □□ (ADR)

: T14

□□□ □□ □ □□ □□□□ □□ □□ (ADR)

: TP2

□□ □□ (ADR)

: L10CH

□□ □□ □□ (ADR)

: TU14, TU15, TE19, TE21

□□ □□□□ □□

: FL

□□ □□ (ADR)

: 1

□□ □□ □□ □□ - □□, □□ □□ □□ (ADR)

: CV1, CV13, CV28

□□ □□ □□ □□ - □□ (ADR)

: S2, S9, S14

□□ □□ □□ (Kemler □□)

: 663

Orange plates (□□□□□□)



□□ □□ □□ (ADR)

: C/D

PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

EAC □□ : •3WE
APP □□ : A(fl)

□□ □□
□□ □□(IMDG) : 0
□□□(IMDG) : E0
□□ □□ (IMDG) : P001
□□ □□ (IMDG) : T14
□□ □□ □□ (IMDG) : TP2, TP13
□□ □□ (IMDG) : D
□□ □ □□(IMDG) : SW1, SW2
□□(IMDG) : SGG1, SG5, SG8, SG36, SG49
□□□ (IMDG) : 19°C c.c.
□□□ □□□□ (IMDG) : Flammable liquid. Flashpoint: 19°C c.c. Boiling point: 108°C. Reacts with water, evolving hydrogen chloride, a corrosive gas apparent as white fumes. In the presence of moisture, corrosive to most metals. Highly toxic if swallowed, by skin contact or by inhalation. Causes burns to skin, eyes and mucous membranes.

□□ □□
PCA □□ □□(IATA) : Forbidden
PCA □□ □□ □□ □□□(IATA) : Forbidden
PCA □□ □□(IATA) : Forbidden
PCA □□ □□□(IATA) : Forbidden
CAO □□ □□(IATA) : Forbidden
CAO □□ □□□(IATA) : Forbidden
ERG □□(IATA) : 6FW

□□ □□ □□
□□ □□(ADN) : TFC
□□ □□(ADN) : 802
□□□(ADN) : 0
□□□(ADN) : E0
□□ □□(ADN) : PP, EP, EX, TOX, A
□□(ADN) : VE01, VE02
□□ □□/□□□□ □□(ADN) : 2

□□ □□
□□ □□(RID) : TFC
□□ □□(RID) : 0
□□□(RID) : E0
□□ □□ (RID) : P001
□□ □□ □□ □□ □□(RID) : MP8, MP17
□□□ □□ □ □□ □□□□ □□ (RID) : T14
□□□ □□ □ □□ □□□□ □□ □□ (RID) : TP2
RID □□□ □□ □□(RID) : L10CH
RID □□□ □□ □□(RID) : TU14, TU15, TU38, TE21, TE22
□□ □□(RID) : 1
□□ □□ □□ □□ -□□, □□ □ □□(RID) : CW13, CW28, CW31
□□□ □□ □□ (RID) : 663

14.7. □□□□□□(IMO) □□ □□ □□ □□

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PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

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

EU □□

REACH □□□ XVII (□□ □□)

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
3(a)	PIVALOYL CHLORIDE EXTRA PURE
3(b)	PIVALOYL CHLORIDE EXTRA PURE
40.	PIVALOYL CHLORIDE EXTRA PURE

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)

□□ □□

□□

WGK

□□□□ □□ □□ (ChemVerbotsV)

: WGK 1, □□ □□ □□ □□ (Classification according to AwSV; ID □□ 1786).

: This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).

□□ □□ □□ (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

: □□ I-1

Store unit

: 1 liter

□□ □□ □□ □□

: F <□□□ □□ 2; □□ □□□ □ 1>; □□□ □□ □□□ □□ □□ □□ □□□□ □□□

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: 18□ □□ □□□ □□ □□□ □□□□□

PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

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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).
 Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
 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).
 Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
 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).
 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).
 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)
 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).
 Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
 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. □□ □□ □□□ □□

No chemical safety assessment has been carried out

□□ 16: □ □□ □□□□

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ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue

PIVALOYL CHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

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IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□ □□
PPE	□□ □□□
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant
TF	□□□ □□
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	□□ □□ □□□

□H□ □ EUH□ □□:	
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□□ □□ 1 (□□: □□)	□□ □□ (□□: □□) □□ 1
□□ □□ 4 (□□)	□□ □□ (□□), □□ 4
□□□ □□ 2	□□□ □□, □□ 2
□□ □□□ 1	□□ □□□/□□ □□□, □□ 1
H225	□□□□ □□ □ □□.
H290	□□□ □□□□ □ □□.
H302	□□□ □□□.

PIVALOYL CHLORIDE EXTRA PURE

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H314	□□□ □□ □□□ □ □□□ □□□.
H330	□□□□ □□□□.

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