

N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SDS Reference Number: 3321B

□□ □□□□: 4/9/2014 □□ □□□□: 1/6/2025 □□ □□: 12/15/2017 □□: 1.1

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1.1. □□□□

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: N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

EC □□ □□

: 615-019-00-5

EC □□

: 208-704-1

CAS □□

: 538-75-0

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: 3321B

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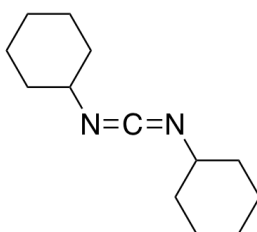
: Organic compound

□□□

: C13H22N2

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:



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: Dicyclohexylmethanediimine, N,N'-Dicyclohexylmethanediimine

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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□□□□/□□□□ □□

: Industrial. For professional use only

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: □□□ □□

Laboratory chemicals

1.3. □□□□□□□□ □□□ □□

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INDIA

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1.4. □□□□□□

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

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2.1. □□□·□□□ □□

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

□□ □□ (□□), □□ 4

H302

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H311

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H318

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H317

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N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

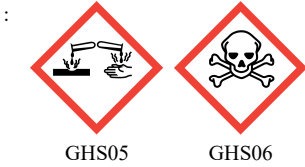
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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.2. □□□□□□ □□ □□□□ □□

□□ (EC) No. 1272/2008 □ □ □ □ □□[CLP]

□□ □□ □□□□(CLP)



□□□ (CLP)
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: H302 - □□□ □□□.
H311 - □□□ □□□□ □□□.
H317 - □□□□□ □□ □□□ □□□ □ □□.
H318 - □□ □□ □□□ □□□.
: P280 - □□□, □□□, □□□, □□□□□ □(□) □□□□□.
P301+P312 - □□ □□: □□□□ □□□ □□ □□ □□ □□ □(□) □□□□□.
P302+P352 - □□□ □□□ □□□ □□ □ □ □□□□□.
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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□□	□□□□	%
N,N'DICYCLOHEXYLCARBODIMIDE	CAS □□: 538-75-0 EC □□: 208-704-1 EC □□ □□: 615-019-00-5	100

□□ 4: □□□□□□

4.1. □□□□ □□

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□□□□ □ : □□□ □□□ □□ □□□ □□□□ □□ □□□ □□□□□. Allow affected person to breathe fresh air. □□□ □□□□□ □□□ □□□ □□ □□□ □□□□ □□ □□□ □□□□□. □□□□ □□/□□□ □□□□□.
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First-aider measures for first aider : □□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□.

4.2. □□ □ □□□ □□ □□□ □□ □ □□

□□ □ □□/□□ : □□□□□ □□ □□□ □□□ □ □□.
□□ □□ □ □□/□□ : Repeated exposure to this material can result in absorption through skin causing significant health hazard. □□□ □□□□ □□□□. □□□□□ □□ □□□ □□□ □ □□.
□ □□ □ □□/□□ : □□ □□ □□□ □□□□. Serious damage to eyes.
□□ □ □□/□□ : Swallowing a small quantity of this material will result in serious health hazard. □□□ □□□□.

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4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

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5.1. □□□ □□□

- □□□ : Carbon dioxide. Dry powder. Foam. Water spray.
- □□□ : Do not use a heavy water stream.

5.2. □□□□□□□ □□□ □□ □□□

- □□ : No fire hazard.
- □□ : No direct explosion hazard.
- □ □□□ □□□ □□ : 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 enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

□□ 6: □□□□□ □□□□

6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

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

6.2. □□□ □□□□ □□ □□□ □□□□

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6.3. □□ □□ □□ □□

- : Using a clean shovel, put the material in a dry container and cover without compressing it.
- □□ : Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.
- □□ □□□□ : 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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- : Ensure good ventilation of the work station. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. □, □□, □□□ □□ □□□ □□□. □□ □□□□ □□□□□. □□/□□/□□□/□□/□□□□ □ □□□ □□□□.

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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. □□□□ □□□□ □□□□ □□ □□ □□

□□□□ □□ : Keep in a cool, well-ventilated place away from heat.
□□ □□ : □□□□ □□ □□ □□□□□□. □□□□ □□□□ □□□□□□. □□□□□□ □□ □□□□□□.
□□□□ : 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.
□□ □□□□
□□ □□□□ :
Wear recommended personal protective equipment.
□□ □□ □□ □□□□ :



□□ □□ □□□□
□□ □□ :
Chemical goggles or safety glasses

Skin protection

□□ □□ :
Wear a mask

□□ □□ :
Protective gloves

□□□□ □□
□□□□ □□ :
Wear appropriate mask

□□ □□ □□
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□□ 9: □□□□□□ □□

9.1. □□□□ □□□□□□ □□□□ □□ □□ □□

□□□□ □□ : □□
□□ : White to yellowish.
□□ : Wax-like solid. Crystalline solid.
□□□□ : 206.33 g/mol
□□ : sweet odour.

N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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□□ □□□□ □□□ □□	:	122 – 124 °C
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□□ □□□	:	□□□□
□□□	:	> 113 °C
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□□ □□	:	□□□□
pH	:	□□□□
pH □□	:	□□□□
□□(□□□)	:	□□□□
□□□	:	□: Insoluble
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	0.0192 hPa at 25 °C - OECD Test Guideline 104
50°C□□□□ □□□	:	□□□□
□□	:	1.325 g/cm³
□□	:	□□□□
20°C□□□□ □□ □□ □□	:	□□□□
Particle size	:	□□□□

9.2. □ □□ □□□□

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□□ 10: □□□ □ □□□

10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □ □□

□□□□. Overheating. Open flame. Sparks.

10.5. □□□ □ □□

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10.6. □□□ □□□□ □□□□

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

□□ 11: □□□ □□ □□

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

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N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS (538-75-0)	
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11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□ : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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□□ □□□□ □□□ : □□□□ □□

12.2. □□□ □ □□□

N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS (538-75-0)	
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12.3. □□ □□□

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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. □□□ □□□

□□ □□(□□□) : 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.
Ecological information : Hazardous waste due to toxicity.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

14.1. UN □□ □□ ID □□

UN-□□(ADR)	: UN 2811
UN-□□(IMDG)	: UN 2811
UN-□□(IATA)	: UN 2811
UN-□□(ADN)	: UN 2811
UN-□□(RID)	: UN 2811

14.2. UN □□ □□□

□□ □□□ (ADR)	: □□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.
□□ □□□ (IATA)	: Toxic solid, organic, n.o.s.
□□ □□□ (ADN)	: □□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (RID)	: □□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□ □□ (ADR) (ADR)	: UN 2811 □□ □□, □□□, □□ □□□ □□□ □□ □ (N,N'DICYCLOHEXYLCARBODIMIDE), 6.1, II, (D/E)
□□ □□ □□ (IMDG)	: UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, II
□□ □□ □□ (IATA)	: UN 2811 Toxic solid, organic, n.o.s. (N,N'DICYCLOHEXYLCARBODIMIDE), 6.1, II
□□ □□ □□ (ADN)	: UN 2811 □□ □□, □□□, □□ □□□ □□□ □□ □, 6.1, II
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14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)	: 6.1
□□ □□ (ADR)	: 6.1
:	

IMDG

□□□□□ □□□ □□ (IMDG)	: 6.1
□□ □□ (IMDG)	: 6.1
:	

IATA

□□□□□ □□□ □□ (IATA)	: 6.1
□□ □□ (IATA)	: 6.1
:	

ADN

□□□□□ □□□ □□ (ADN)	: 6.1
□□ □□ (ADN)	: 6.1
:	

RID

□□□□□ □□□ □□ (RID)	: 6.1
□□ □□ (RID)	: 6.1

N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878



14.4. □□□□

□□ □□ (ADR)	: II
□□ □□(IMDG)	: II
□□ □□ (IATA)	: II
□□ □□(ADN)	: II
□□ □□(RID)	: II

14.5. □□ □□□

□□□□ □□	: □□□
□□□□□□	: □□□
EmS-No. (□□)	: F-A
EmS-No. (□□)	: S-A
□ □□ □□□□	: □□ □□ □□ □□

14.6. □□□□ □□ □□ □□□□

□□ □□	
□□ □□(ADR)	: T2
□□ □□(ADR)	: 274, 614
□□□(ADR)	: 500g
□□□(ADR)	: E4
□□ □□(ADR)	: P002, IBC08
□□ □□ (ADR)	: B4
□□ □□ □□ □□ □□(ADR)	: MP10
□□□□ □□ □□ □□□□ □□ (ADR)	: T3
□□□□ □□ □□ □□□□ □□ □□ (ADR)	: TP33
□□ □□(ADR)	: SGAH, L4BH
□□ □□ □□(ADR)	: TU15, TE19
□□ □□□□ □□	: AT
□□ □□(ADR)	: 2
□□ □□ □□ □□ - □□(ADR)	: V11
□□ □□ □□ □□ -□□, □□ □ □□(ADR)	: CV13, CV28
□□ □□ □□ □□ - □□(ADR)	: S9, S19
□□ □□ □□(Kemler □□)	: 60
Orange plates (□□□□□□□)	:



□□ □□ □□ (ADR)	: D/E
EAC □□	: 2X

□□ □□

□□ □□ (IMDG)	: 274
□□ □□(IMDG)	: 500 g
□□□(IMDG)	: E4
□□ □□ (IMDG)	: P002
IBC □□ □□(IMDG)	: IBC08
IBC □□ □□ (IMDG)	: B21, B4
□□ □□ (IMDG)	: T3
□□ □□ □□ (IMDG)	: TP33
□□ □□ (IMDG)	: B
□□□□ □□□□ (IMDG)	: Toxic if swallowed, by skin contact or by inhalation.
MFAG-□□	: 154

□□ □□

PCA □□ □□(IATA)	: E4
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N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

PCA □□ □□(IATA)	: Y644
PCA □□ □□ □□ □□□(IATA)	: 1kg
PCA □□ □□□(IATA)	: 669
PCA □□ □□□□(IATA)	: 25kg
CAO □□ □□□(IATA)	: 676
CAO □□ □□□□(IATA)	: 100kg
□□ □□(IATA)	: A3, A5
ERG □□(IATA)	: 6L

□□ □□ □□	
□□ □□(ADN)	: T2
□□ □□(ADN)	: 274, 614, 802
□□□(ADN)	: 500 g
□□□(ADN)	: E4
□□ □□(ADN)	: PP, EP
□□ □□/□□□ □□(ADN)	: 2

□□ □□	
□□ □□(RID)	: T2
□□ □□(RID)	: 274, 614
□□ □□(RID)	: 500g
□□□(RID)	: E4
□□ □□ (RID)	: P002, IBC08
□□ □□ (RID)	: B4
□□ □□ □□ □□ □□(RID)	: MP10
□□□ □□ □ □□ □□□□ □□ (RID)	: T3
□□□ □□ □ □□ □□□□ □□ □□ (RID)	: TP33
RID □□□ □□ □□(RID)	: SGAH, L4BH
RID □□□ □□ □□(RID)	: TU15
□□ □□(RID)	: 2
□□ □□ □□ □□ - □□(RID)	: W11
□□ □□ □□ □□ -□□, □□ □ □□(RID)	: CW13, CW28, CW31
□□ □□□	: CE9
□□□ □□ □□ (RID)	: 60

14.7. □□□□□□(IMO)□ □□ □□ □□ □□

□□□□

□□ 15: □□ □□□□

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

EU □□

REACH □□□ XVII (□□ □□)

REACH □□□ XVII □□ □□ □

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)

N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□□□□ □□(428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

□□ □□□□ □□ (2019/1148)

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

□□ □□□□ □□ (273/2004)

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

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□□	□□
RG 65	
RG 66	

□□

VOC ordinance (ChemVOCFarbV) :

WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV).
□□□□ □□ □□ (ChemVerbotsV) : 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 : □□□□ □□

□□□

□□□□ □□ □□ : 18□ □□ □□□ □□ □□□□ □□□□
□ □□□□ □□□□ □□/□□□□ □□ □□□ □□ □□□□ □ □□□.

15.2. □□ □□ □□□□ □□

No chemical safety assessment has been carried out

□□ 16: □ □□ □□□□

□□ □ □□□□:	
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)

N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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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
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	□□ □□ □□□

N,N'DICYCLOHEXYLCARBODIMIDE FOR SYNTHESIS

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□H□ □ EUH□ □□:	
□□ □□ 3 (□□)	□□ □□ (□□), □□ 3
□□ □□ 4 (□□)	□□ □□ (□□), □□ 4
□ □□□ 1	□□ □ □□□/□ □□□, □□ 1
□□ □□□ 1	□□ □□□, □□ 1
H302	□□□ □□□.
H311	□□□ □□□□ □□□.
H317	□□□□□ □□ □□□ □□□ □ □□.
H318	□□ □□ □□□ □□□.

□□□□□□□□(SDS), EU

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