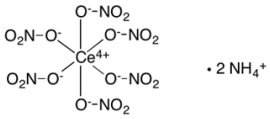
AMMONIUM CERIC NITRATE AR/ACS

□□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
SDS Reference Number: 01122
□□ □□□□: 4/9/2014 □□ □□□□: 1/20/2025 □□ □□: 4/21/2015 □□: 1.1

□□ 1: □□□□□□ □□□ □□ □□

1.1. □□□□

□□ □□	:	□□
□□□	:	AMMONIUM CERIC NITRATE AR/ACS
EC □□	:	240-827-6
CAS □□	:	16774-21-3
□□ □□	:	01122
□□ □□	:	Inorganic compound
□□□	:	[NH4]2[Ce(NO3)6]
□□ □□	:	
□□□	:	Diammonium cerium (IV) nitrate, Ceric ammonium nitrate, Diammonium hexanitratocerate (IV)

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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□□□□/□□□□ □□	:	Laboratory chemicals, Manufacture of substances

1.3. □□□□□□□□□ □□□ □□

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai
INDIA
T +91 22 6663 6663, F +91 22 6663 6699
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]□ □□ □□

□□□ □□ □□ □□	H272
□□ □□ (□□), □□ 4	H302
□□ □□□/□□ □□□, □□ 2	H315
□□ □ □□□/□ □□□, □□ 2	H319
□□□□□□ □□ - 1□ □□, □□ 3, □□□□ □□	H335

□□(H) □□ □ EUH □□ □□: 16□ □□.

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2.2. □□□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]

□□ □□ □□□□(CLP) :

GHS03 GHS07

□□□ (CLP) : □□

□□·□□ □□ (CLP) : H272 - □□□ □□□□ □; □□□.
H302 - □□□ □□□.
H315 - □□□ □□□ □□□.
H319 - □□ □□ □□□ □□□.
H335 - □□□ □□□ □□□ □ □□.

□□ □□ □□(CLP) : P210 - □·□□□ □□·□□□·□□·□□ □□□□□□□□ □□□□□. □□.
P220 - □□ □ □ □□ □□□ □□□□□ □□□□□.
P261 - □□, □□, □, □□ □ □□□ □□□□.
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. □□□□

□□ □□ : □□□□□□

□□	□□□□	%
AMMONIUM CERIC NITRATE	CAS □□: 16774-21-3 EC □□: 240-827-6	100

□□ 4: □□□□□□□

4.1. □□□□ □□

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□□□ □□□□ □ : □□□ □□□ □□ □□□□. □□□□ □□/□□□ □□□□. Wash skin with plenty of water. □□□ □□□ □□□□. □□ □□□ □□□□: □□□□ □□/□□□ □□□□.

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First-aid measures for first aider : □□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□.

4.2. □□ □ □□□ □□ □□□ □□ □ □□

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□ □□ □ □□/□□ : □□ □□□ □□□. Eye irritation.

□□ □ □□/□□ : Swallowing a small quantity of this material will result in serious health hazard. □□□ □□□.

4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

□□ 5: □□·□□□ □□□□

5.1. □□□ □□□

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

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

5.2. □□□□□□□□ □□□ □□ □□□

□□ □□ : □□□ □□□□ □; □□□.

□□ □□ : 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. □□, □□□□ □□ □□. □□. □□/□/□□/□□ □/□□/□□□□ □ □□□ □□□□. □□ □ □□□ □□□ □□□□.

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□□ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□. □ □ □□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.

□□ □□ : Ventilate area. Evacuate unnecessary personnel.

6.2. □□□ □□□□ □□ □□□ □□□□

□□□□ □□□□ □□□.

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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□□□□□□ : □□ □ □□□ □□□ □□□□. Do not breathe vapours. Avoid dust formation. □, □□□ □□, □□□, □ □ □ □ □□ □□□□□□□ □□□□□. □□. □□ □□□□ □□□□□. □□ □□ □□□ □ □□ □□□□ □□ □□□. □□/□/□□/□□□/□□/□□□□ □ □□□ □□□□.

□□ □□ : □ □□□ □□□ □□□ □□□, □□□□ □□□□ □□□. 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.

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□□□	:	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

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□□□ □□:

Wear appropriate mask

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□□ 9: □□□□□ □□

9.1. □□□□ □□□□□ □□□ □□ □□

□□□ □□	:	□□
□□	:	Reddish orange.
□□	:	Crystalline powder.
□□□	:	548.23 g/mol
□□	:	slight characteristic odor.
□□ □□	:	□□□□
□□□	:	107 – 108 °C
□□□	:	□□□□
□□ □□□□ □□□ □□	:	□□□□
□□□	:	□□□
□□□	:	The substance or mixture is classified as oxidizing with the subcategory 2.

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□□□□ □□	:	□□□□
□□ □□	:	□□□□
pH	:	1 at 20 °C
pH □□	:	50 g/l
□□(□□□)	:	□□□□
□□□	:	□: 141 g/100ml at 25 °C - Soluble
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	□□□□
50°C□□□ □□□	:	□□□□
□□	:	□□□□
□□	:	□□□□
20°C□□□ □□ □□ □□	:	□□□□
Particle size	:	□□□□

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. □□□ □ □□

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10.5. □□□ □ □□

Combustible materials.

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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□□ □□ (□□)	:	□□□□ □□
□□ □□□ □□ □□□	:	□□□ □□□ □□□. pH: 1 at 20 °C
□□ □ □□ □□ □□□	:	□□ □□ □□□ □□□. pH: 1 at 20 °C
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□□ □□□□ □□ (□□ □□)	:	□□□□ □□

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AMMONIUM CERIC NITRATE AR/ACS (16774-21-3)	
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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. □□□ □ □□□

AMMONIUM CERIC NITRATE AR/ACS (16774-21-3)	
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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.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

14.1. UN □□ □□ ID □□

UN-□□(ADR) : UN 1477

UN-□□ (IMDG) : UN 1477

UN-□□(IATA)	:	UN 1477
UN-□□(ADN)	:	UN 1477
UN-□□(RID)	:	UN 1477

14.2. UN □□ □□□

□□ □□□ (ADR)	:	□□□□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (IMDG)	:	NITRATES, INORGANIC, N.O.S.
□□ □□□ (IATA)	:	Nitrates, inorganic, n.o.s.
□□ □□□ (ADN)	:	□□□□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (RID)	:	□□□□, □□□, □□ □□□ □□□ □□ □
□□ □□ □□ (ADR) (ADR)	:	UN 1477 □□□□, □□□, □□ □□□ □□□ □□ □ (AMMONIUM CERIC NITRATE), 5.1, II, (E)
□□ □□ □□ (IMDG)	:	UN 1477 NITRATES, INORGANIC, N.O.S. (AMMONIUM CERIC NITRATE), 5.1, II
□□ □□ □□ (IATA)	:	UN 1477 Nitrates, inorganic, n.o.s. (AMMONIUM CERIC NITRATE), 5.1, II
□□ □□ □□ (ADN)	:	UN 1477 □□□□, □□□, □□ □□□ □□□ □□ □, 5.1, II
□□ □□ □□ (RID)	:	UN 1477 □□□□, □□□, □□ □□□ □□□ □□ □, 5.1, II

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)	:	5.1
□□ □□ (ADR)	:	5.1
	:	

IMDG

□□□□□ □□□ □□ (IMDG)	:	5.1
□□ □□ (IMDG)	:	5.1
	:	

IATA

□□□□□ □□□ □□ (IATA)	:	5.1
□□ □□ (IATA)	:	5.1
	:	

ADN

□□□□□ □□□ □□ (ADN)	:	5.1
□□ □□ (ADN)	:	5.1
	:	

RID

□□□□□ □□□ □□ (RID)	:	5.1
□□ □□ (RID)	:	5.1
	:	

14.4. □□□□

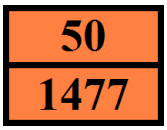
□□ □□ (ADR)	:	II
□□ □□(IMDG)	:	II
□□ □□ (IATA)	:	II
□□ □□(ADN)	:	II
□□ □□(RID)	:	II

14.5. □□ □□□

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

14.6. □□□□ □□ □□ □□□□

□□ □□

□□ □□(ADR)	:	O2
□□ □□(ADR)	:	511
□□□(ADR)	:	1kg
□□□(ADR)	:	E2
□□ □□(ADR)	:	P002, IBC08
□□ □□ (ADR)	:	B4
□□ □□ □□ □□ □□(ADR)	:	MP10
□□□ □□ □ □□ □□□□ □□ (ADR)	:	T3
□□□ □□ □ □□ □□□□ □□ □□ (ADR)	:	TP33
□□ □□(ADR)	:	SGAN
□□ □□ □□(ADR)	:	TU3
□□ □□□ □□	:	AT
□□ □□(ADR)	:	2
□□ □□ □□ □□ - □□(ADR)	:	V11
□□ □□ □□ □□ -□□, □□ □ □□(ADR)	:	CV24
□□ □□ □□(Kemler □□)	:	50
Orange plates (□□□□□□)	:	
□□ □□ □□ (ADR)	:	E
EAC □□	:	1Y

□□ □□

□□ □□(IMDG)	:	1 kg
□□□(IMDG)	:	E2
□□ □□ (IMDG)	:	P002
IBC □□ □□(IMDG)	:	IBC08
IBC □□ □□ (IMDG)	:	B21, B4
□□ □□ (IMDG)	:	T3
□□ □□ □□ (IMDG)	:	TP33
□□ □□ (IMDG)	:	A
□□(IMDG)	:	SG38, SG49
□□□ □□□□ (IMDG)	:	Solids. Solid mixtures with combustible material are readily ignited and may burn fiercely. Harmful if swallowed.
MFAG-□□	:	140

□□ □□

PCA □□ □□(IATA)	:	E2
PCA □□ □□(IATA)	:	Y544
PCA □□ □□ □□ □□□(IATA)	:	2.5kg
PCA □□ □□(IATA)	:	558
PCA □□ □□□(IATA)	:	5kg
CAO □□ □□(IATA)	:	562
CAO □□ □□□(IATA)	:	25kg

□□ □□(IATA)	:	A3, A803
ERG □□(IATA)	:	5L

□□ □□ □□

□□ □□(ADN)	:	O2
□□ □□(ADN)	:	511
□□□(ADN)	:	1 kg
□□□(ADN)	:	E2
□□ □□(ADN)	:	PP
□□ □□/□□□ □□(ADN)	:	0

□□ □□

□□ □□(RID)	:	O2
□□ □□(RID)	:	511
□□ □□(RID)	:	1kg
□□□(RID)	:	E2
□□ □□ (RID)	:	P002, IBC08
□□ □□ (RID)	:	B4
□□ □□ □□ □□ □□(RID)	:	MP10
□□□ □□ □ □□ □□□□ □□ (RID)	:	T3
□□□ □□ □ □□ □□□□ □□ □□ (RID)	:	TP33
RID □□□ □□ □□(RID)	:	SGAN
RID □□□ □□ □□(RID)	:	TU3
□□ □□(RID)	:	2
□□ □□ □□ □□ - □□(RID)	:	W11
□□ □□ □□ □□ -□□, □□ □ □□(RID)	:	CW24
□□ □□□	:	CE10
□□□ □□ □□ (RID)	:	50

14.7. □□□□□□□(IMO)□ □□ □□ □□ □□

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□□ 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)

□□□□ □□(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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□□

VOC ordinance (ChemVOCFarbV)	:	
WGK	:	WGK 3, □□ □□ □□□ (Classification according to AwSV).
□□□□ □□ □□ (ChemVerbotsV)	:	This product is subject to ChemVerbotsV Annex 2 Entry 2. The following requirement must be observed: Basic requirements for the implementation of the submission (according to § 8 paragraph 1, 3 and 4).
□□ □□ □□(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: □ □□ □□□□

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ACGIH	American Conference of Governement 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
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□ □□:	
□□ □□ 4 (□□)	□□ □□ (□□), □□ 4
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H272	□□□ □□□□ □; □□□.
H302	□□□ □□□.
H315	□□□ □□□ □□□.
H319	□□ □□ □□□ □□□.
H335	□□□ □□□ □□□ □ □□.

□□□□□□□□(SDS), EU

□ □□□ □□ □□□ □□□□ □□ □□□ □□□ □ □□□ □□, □□ □ □□ □□□ □□□□ □□□ □□□□□ □□ □□□□. □□□□ □□□ □□□ □□□ □□□□ □□□ □□ □□□□ □ □□□.