TETRABUTYL AMMONIUM HYDROXIDE 40% IN WATER EXTRA PURE

□□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: 6217C
□□ □□□□: 4/9/2014 □□ □□□□: 2/13/2025 □□ □□: 4/9/2015 □□: 1.0

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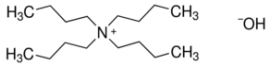
1.1. □□□□

□□ □□	:	□□□
□□□	:	TETRABUTYL AMMONIUM HYDROXIDE 40% IN WATER EXTRA PURE
□□ □□	:	6217C
□□ □□	:	Solution
□□ □□	:	
□□□	:	N,N,N-Tributyl-1-butanaminium hydroxide, TBAH 40, Tetra-n-butylammonium hydroxide

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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□□/□□□ □□ □□	:	Industrial For professional use only
□□□□/□□□□ □□	:	Laboratory chemicals

1.3. □□□□□□□□□ □□□ □□

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
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INDIA
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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]□ □□ □□

□□ □□□/□□ □□□, □□ 1 H314
□□(H) □□ □ EUH □□ □□: 16□ □□.

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2.2. □□□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]

□□ □□ □□□□(CLP) :

GHS05

□□□ (CLP)	:	□□
□□	:	TETRABUTYL AMMONIUM HYDROXIDE
□□·□□ □□ (CLP)	:	H314 - □□□ □□ □□□ □ □□□ □□□.
□□ □□ □□(CLP)	:	P280 - □□□□, □□□, □□□, □□□□□ □(□) □□□□□. P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □ □□□. P310 - □□ □□ □□ □□ □□ □□ □(□) □□□□.

2.3. □□ □□

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

□ □□□□ REACH□ 59(1)□□ □□ □□□ □□ □□□ □□ □□□ □□□ □□□ □□□□ □□ □□□ □□□□ □□ □□□, □□□ □□ □□ (EU) 2017/2100 □□ □□□ □ □ (EU) 2018/605□ □□□ □□□ □□ □□□ 0.1% □□□ □□□ □□ □□□ □□ □□□ □□□□ □□ □□□ □□□□ □□ □□□□

□□ 3: □□□□□□ □□ □ □□□

3.2. □□□

□□	□□□□	%	Regulation (EC) No.1272/2008 [CLP]□ □□ □□
WATER	CAS □□: 7732-18-5 EC □□: 231-791-2	58 – 62	□□□□ □□
TETRABUTYL AMMONIUM HYDROXIDE	CAS □□: 2052-49-5 EC □□: 218-147-6	38 – 42	□□□ □□ 2, H225 □□ □□□ 1, H314

□□(H) □□ □ EUH □□ □□: 16□ □□.

□□ 4: □□□□□□□

4.1. □□□□ □□

□□ □□ □□ : Call a physician immediately.

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

□□□ □□□□ □ : □□□ □□ □□□ □□ □□□□. □□□ □□ □□□□[□□ □□□□□]. □□ □□□□/□□□ □□□ □□□□. Call a physician immediately.

□□ □□□□ □ : □ □□ □□ □□□□ □□□□. □□□□ □□□□□□ □□□□□. □□ □□□□. □□ □□□□/□□□ □□□ □□□□. Call a physician immediately.

□□□ □ : □□ □□□□□. □□□ □□ □□□. □□ □□□□/□□□ □□□ □□□□. Do not induce vomiting. Call a physician immediately.

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

4.2. □□ □ □□□ □□ □□□ □□ □ □□

□□/□□ : □□□ □□ □□□ □□ □□□ □□□.

□□ □ □□/□□ : None under normal conditions.

□□ □□ □ □□/□□ : Burns.

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

□□ □ □□/□□ : Burns.

4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

□□ 5: □□·□□□ □□□□

5.1. □□□ □□□

□□□ □□□ : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam. Carbon dioxide.

□□□□ □□□ : 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 attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

□□ 6: □□□□□ □□□□

6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

□□ □□	:	□□□□ □□□□ □□ □□□□ □□□ □□□□. □□□ □□□ □□ □□□□□ □□□ □□ □□□ □□. □□□ □□ □□□□ □□ □□□□ □□□□□□.

□□□ □□ □□

□□ □□	:	Wear recommended personal protective equipment.
□□ □□	:	Ventilate spillage area. Evacuate unnecessary personnel. □□ □ □□□ □□□ □□□□. □□/□/□□/□ □□/□□/□□□□ □(□) □□□□ □□□.

□□ □□ □□

□□ □□	:	Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□. □ □ □□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.
□□ □□	:	Stop release. Evacuate unnecessary personnel. □□□□ □□□□ □□ □□□□ □□□ □□□□.

6.2. □□□ □□□□ □□ □□□ □□□□

□□□□ □□□□ □□□.

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. □□□□ □□□□. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
□ □□ □□□□	:	Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□

For further information refer to section 13.

□□ 7: □□ □ □□□□

7.1. □□□□□□

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□□□□□□	:	Ensure good ventilation of the work station. □□/□/□□/□□□/□□/□□□□ □(□) □□□□ □□□. □□ ·□□ □□□□ □□□□ □□□. □□ □ □□□ □□□ □□□□. □□ □□□□ □□□□□.
□□ □□	:	□□ □□□ □□ □□ □(□) □□□ □□□□. □□ □□ □ □□□ □□□ □□□□□. □ □□□ □□□ □□□ □ □□, □□□□ □□□□ □□□. Always wash hands after handling the product.

7.2. □□□□ □□□ □□□ □□□ □□ □□

□□□ □□	:	Comply with applicable regulations.
□□ □□	:	Store in original container. □□□ □□□ □□□□□. □□□ □□□ □□□□□. □□□□□ □□ □□□□□.
□□□	:	Store always product in container of same material as original container.

7.3. □□ □□ □□

□□ □□

□□ 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. □□□□ □□□□□ □□□ □□ □□

□□□ □□	:	□□
□□	:	Colourless to Light yellow.
□□	:	Clear liquid.
□□	:	□□□□
□□ □□	:	□□□□
□□□	:	□□□□
□□□	:	□□□□
□□ □□□□ □□□ □□	:	> 100 °C
□□□	:	□□□
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□□ □□□	:	□□□□
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□□□□ □□	:	□□□□
□□ □□	:	□□□□
pH	:	14 at 20 °C
□□(□□□)	:	□□□□
□□□	:	□: Miscible with water
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	□□□□
50°C□□□ □□□	:	□□□□
□□	:	≈ 0.98 g/cm³ at 25 °C
□□	:	□□□□
20°C□□□ □□ □□ □□	:	□□□□
□□ □□	:	□□□□

9.2. □ □□ □□□□

□□ □□

□□ 10: □□□ □ □□□

10.1. □□□

Thermal decomposition generates : Corrosive vapours.

10.2. □□□ □□□

Stable under normal conditions of use.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □ □□

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

10.5. □□□ □ □□

□□ □□

10.6. □□□ □□□□ □□□□

Thermal decomposition generates : Corrosive vapours.

□□ 11: □□□ □□ □□

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

□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□□ □□ □□□	:	Causes severe skin burns. pH: 14 at 20 °C

TETRABUTYL AMMONIUM HYDROXIDE (2052-49-5)	
pH	14

□□ □ □□ □□ □□□	:	Assumed to cause serious eye damage pH: 14 at 20 °C

TETRABUTYL AMMONIUM HYDROXIDE (2052-49-5)	
pH	14

□□□ □□ □□ □□□	:	□□□□ □□
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□□□□	:	□□□□ □□
□□ □□□□ □□ (1□ □□)	:	□□□□ □□
□□ □□□□ □□ (□□ □□)	:	□□□□ □□
□□ □□□	:	□□□□ □□

11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

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

12.2. □□□ □ □□□

TETRABUTYL AMMONIUM HYDROXIDE 40% IN WATER EXTRA PURE	
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TETRABUTYL AMMONIUM HYDROXIDE (2052-49-5)	
□□□ □ □□□	□□ □□ □□

WATER (7732-18-5)	
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12.3. □□ □□□

□□ □□

12.4. □□ □□□

□□ □□

12.5. PBT □ vPvB □□ □□

□□ □□

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 3267
UN-□□ (IMDG)	:	UN 3267
UN-□□(IATA)	:	UN 3267
UN-□□(ADN)	:	UN 3267
UN-□□(RID)	:	UN 3267

14.2. UN □□ □□□

□□ □□□ (ADR)	:	□□□ □□, □□□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (IMDG)	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
□□ □□□ (IATA)	:	Corrosive liquid, basic, organic, n.o.s.
□□ □□□ (ADN)	:	□□□ □□, □□□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (RID)	:	□□□ □□, □□□, □□□, □□ □□□ □□□ □□ □
□□ □□ □□ (ADR) (ADR)	:	UN 3267 □□□ □□, □□□, □□□, □□ □□□ □□□ □□ □ (TETRABUTYL AMMONIUM HYDROXIDE), 8, II, (E)
□□ □□ □□ (IMDG)	:	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., 8, II
□□ □□ □□ (IATA)	:	UN 3267 Corrosive liquid, basic, organic, n.o.s. (TETRABUTYL AMMONIUM HYDROXIDE), 8, II
□□ □□ □□ (ADN)	:	UN 3267 □□□ □□, □□□, □□□, □□ □□□ □□□ □□ □, 8, II
□□ □□ □□ (RID)	:	UN 3267 □□□ □□, □□□, □□□, □□ □□□ □□□ □□ □, 8, II

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)	:	8
□□ □□ (ADR)	:	8
	:	

IMDG

□□□□□ □□□ □□ (IMDG)	:	8
□□ □□ (IMDG)	:	8
	:	

IATA

□□□□□ □□□ □□ (IATA)	:	8
□□ □□ (IATA)	:	8
	:	

ADN

□□□□□ □□□ □□ (ADN)	:	8
□□ □□ (ADN)	:	8
	:	

RID

□□□□□ □□□ □□ (RID)	:	8
□□ □□ (RID)	:	8
	:	

14.4. □□□□

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

14.5. □□ □□□

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

14.6. □□□□ □□ □□ □□□□

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□□ □□(ADR)	:	C7
□□ □□(ADR)	:	274
□□□(ADR)	:	11
□□□(ADR)	:	E2
□□ □□(ADR)	:	P001, IBC02
□□ □□ □□ □□ □□(ADR)	:	MP15
□□□ □□ □ □□ □□□□ □□ (ADR)	:	T11
□□□ □□ □ □□ □□□□ □□ □□ (ADR)	:	TP2, TP27
□□ □□(ADR)	:	L4BN
□□ □□□ □□	:	AT
□□ □□(ADR)	:	2
□□ □□ □□(Kemler □□)	:	80
Orange plates (□□□□□□)	:	
□□ □□ □□ (ADR)	:	E
EAC □□	:	2X

□□ □□

□□ □□ (IMDG)	:	274
□□ □□(IMDG)	:	1 L
□□□(IMDG)	:	E2
□□ □□ (IMDG)	:	P001
IBC □□ □□(IMDG)	:	IBC02
□□ □□ (IMDG)	:	T11
□□ □□ □□ (IMDG)	:	TP2, TP27
□□ □□ (IMDG)	:	B
□□ □ □□(IMDG)	:	SW2
□□(IMDG)	:	SGG18, SG35
□□□ □□□□ (IMDG)	:	Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.
MFAG-□□	:	153

□□ □□

PCA □□ □□(IATA)	:	E2
PCA □□ □□(IATA)	:	Y840
PCA □□ □□ □□ □□□(IATA)	:	0.5L
PCA □□ □□(IATA)	:	851
PCA □□ □□□(IATA)	:	1L
CAO □□ □□(IATA)	:	855
CAO □□ □□□(IATA)	:	30L
□□ □□(IATA)	:	A3, A803
ERG □□(IATA)	:	8L

□□ □□ □□

□□ □□(ADN)	:	C7
□□ □□(ADN)	:	274
□□□(ADN)	:	1 L
□□□(ADN)	:	E2
□□□□(ADN)	:	T
□□ □□(ADN)	:	PP, EP
□□ □□/□□□ □□(ADN)	:	0

□□ □□

□□ □□(RID)	:	C7
□□ □□(RID)	:	274
□□ □□(RID)	:	1L
□□□(RID)	:	E2
□□ □□ (RID)	:	P001, IBC02
□□ □□ □□ □□ □□(RID)	:	MP15
□□□ □□ □ □□ □□□□ □□ (RID)	:	T11
□□□ □□ □ □□ □□□□ □□ □□ (RID)	:	TP2, TP27
RID □□□ □□ □□(RID)	:	L4BN
□□ □□(RID)	:	2
□□ □□□	:	CE6
□□□ □□ □□ (RID)	:	80

14.7. □□□□□□□(IMO)□ □□ □□ □□ □□

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□□ 15: □□ □□□□

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

EU □□

REACH □□□ XVII (□□ □□)

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
3(a)	TETRABUTYL AMMONIUM HYDROXIDE
3(b)	TETRABUTYL AMMONIUM HYDROXIDE 40% IN WATER EXTRA PURE ; TETRABUTYL AMMONIUM HYDROXIDE
40.	TETRABUTYL AMMONIUM HYDROXIDE

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□)□ □□□ □□□ □□□□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□□ □□□ □□□ □□□□ □□

PIC □□ (□□□□□□)

PIC □□(□□ □□□□ □□□□ □□ □□ EU 649/2012)□ □□□ □□□ □□□□ □□

POP □□ (□□□ □□ □□□□)

POP □□□ □□□ □□□ □□□□ □□ (□□□□□□□□□□□ □□ □□ EC 2019/1021)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

□□□□ □□(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 nwg, □□ □□ □□ □□ (□□ □□ □□ □□□ □□ □□ □□(AwSV)□ □□ □□ □ □).
□□ □□ □□(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	: □□ □□□ □□□□ □□□□□.

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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
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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□H□ □ EUH□ □□:	
H225	□□□□ □□ □ □□.
H314	□□□ □□ □□□ □ □□□ □□□.

□□□□□□□□(SDS), EU

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