2-MERCAPTOETHANOL FOR SYNTHESIS

□□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: 04565
□□ □□□□: 4/9/2014 □□ □□□□: 2/6/2025 □□ □□: 4/9/2015 □□: 1.0

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1.1. □□□□

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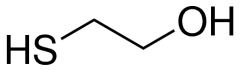
□□□	:	2-MERCAPTOETHANOL FOR SYNTHESIS
EC □□	:	200-464-6
CAS □□	:	60-24-2
□□ □□	:	04565
□□ □□	:	Aliphatic alcohol
□□□	:	C2H6OS
□□ □□	:	
□□□	:	Thioethylene glycol, 2-Hydroxyethylmercaptan, BME, β-Mercaptoethanol, Thioglycol

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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

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)

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2.1. □□□·□□□ □□

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

□□ □□ (□□), □□ 3	H301
□□ □□ (□□), □□ 2	H310
□□ □□ (□□), □□ 3	H331
□□ □□□/□□ □□□, □□ 2	H315
□□ □ □□□/□ □□□, □□ 1	H318
□□ □□□, □□ 1	H317
□□□□, □□ 2	H361f
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2.2. □□□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]

□□ □□ □□□□(CLP) :

GHS05 GHS06 GHS08 GHS09

□□□ (CLP) : □□

□□·□□ □□ (CLP) : H301+H331 - □□□□ □□□□ □□□□□.
H310 - □□□ □□□□ □□□□.
H315 - □□□ □□□ □□□.
H317 - □□□□□ □□ □□□ □□□ □ □□.
H318 - □□ □□ □□□ □□□.
H361f - □□ □□□ □□□ □□ □□□□.
H410 - □□□ □□□ □□ □□□□□□ □□ □□□.

□□ □□ □□(CLP) : P273 - □□□□ □□□□ □□□.
P280 - □□□, □□□, □□□□□, □□□□ □(□) □□□□□.
P301+P310 - □□□□ □□ □□ □□ □□ □□ □□ □(□) □□□□.
P302+P352 - □□□ □□□ □□□ □ □ □□□□.
P304+P340 - □□□□ □□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□.
P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □ □□□.
P308+P313 - □□□□□ □□□ □□□ □□: □□□ □□·□□□ □□□□.

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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□□	□□□□	%
2-MERCAPTOETHANOL	CAS □□: 60-24-2 EC □□: 200-464-6	100

□□ 4: □□□□□□

4.1. □□□□ □□

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

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

4.2. □□ □ □□□ □□ □□□ □□ □ □□

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

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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 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.

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6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

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□□ □□ : Wear recommended personal protective equipment.

□□ □□ : Evacuate unnecessary personnel. □□□ □□ □□□ □□□ □□□ □□□ □□□ □ □□. □□/□/□□/□□ □/□□/□□□□ □ □□□ □□□□.

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

□□ □□ : Evacuate unnecessary personnel. □□□□ □□□□ □□ □□□□ □□□ □□□□.

6.2. □□□ □□□□ □□ □□□ □□□□

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6.3. □□ □□ □□ □□

□□□ : □□□□ □□□□. 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. Clear up rapidly by scoop or vacuum. □□□ □□□ □□ □□□□□ □□□ □□ □□□ □□.

□ □□ □□□□ : 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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7.2. □□□□ □□□ □□□ □□□ □□ □□

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

7.3. □□ □□ □□

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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.

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□ □□:

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. □□□□ □□□□□ □□□ □□ □□

□□□ □□	:	□□
□□	:	Colourless to Light yellow.
□□	:	Clear liquid.
□□□	:	78.13 g/mol
□□	:	Disagreeable.
□□ □□	:	□□□□
□□□	:	□□□□
□□□	:	-100 °C
□□ □□□□ □□□ □□	:	157 °C
□□□	:	□□□
□□ □□□	:	2.3 vol %
□□ □□□	:	18 vol %
□□□	:	74 °C
□□□□ □□	:	295 °C
□□ □□	:	□□□□
pH	:	4.5 – 6 at 20 °C
pH □□□ □□	:	50 %
□□(□□□)	:	3.079 mm²/s
□□(□□□□)	:	3.43 cP at 20 °C
□□□	:	□: Miscible with water □□□: Miscible with ethanol □□□: Miscible with ether
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
Partition coefficient n-octanol/water (Log Pow)	:	0.056
□□□	:	0.76 hPa at 20 °C
50°C□□□ □□□	:	□□□□
□□	:	1.114 g/cm³ at 20 °C
□□	:	□□□□
20°C□□□ □□ □□ □□	:	2.69 (Air = 1)
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9.2. □ □□ □□□□

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□□□	:	1.4996 at 20 °C/D

□□ 10: □□□ □ □□□

10.1. □□□

Thermal decomposition generates : Corrosive vapours.

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. □□□ □□□□ □□□□

Thermal decomposition generates : Corrosive vapours.

□□ 11: □□□□ □□ □□

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

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2-MERCAPTOETHANOL FOR SYNTHESIS (60-24-2)	
□□(□□□)	3.079 mm²/s

11.2. □□ □□ □□

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12.1. □□

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12.2. □□□ □ □□□

2-MERCAPTOETHANOL FOR SYNTHESIS (60-24-2)	
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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 waste information	:	Hazardous waste due to toxicity.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

14.1. UN □□ □□ ID □□

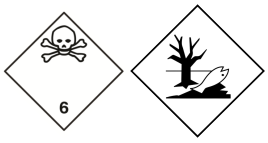
UN-□□(ADR)	:	UN 2966
UN-□□ (IMDG)	:	UN 2966
UN-□□(IATA)	:	UN 2966
UN-□□(ADN)	:	UN 2966
UN-□□(RID)	:	UN 2966

14.2. UN □□ □□□

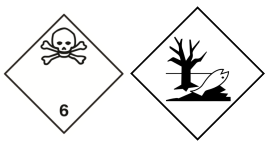
□□ □□□ (ADR)	:	□□□□□□
□□ □□□ (IMDG)	:	THIOGLYCOL
□□ □□□ (IATA)	:	Thioglycol
□□ □□□ (ADN)	:	□□□□□□
□□ □□□ (RID)	:	□□□□□□
□□ □□ □□ (ADR) (ADR)	:	UN 2966 □□□□□□, 6.1, II, (D/E), □□□ □□
□□ □□ □□ (IMDG)	:	UN 2966 THIOGLYCOL, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
□□ □□ □□ (IATA)	:	UN 2966 Thioglycol, 6.1, II, ENVIRONMENTALLY HAZARDOUS
□□ □□ □□ (ADN)	:	UN 2966 □□□□□□, 6.1, II, □□□ □□
□□ □□ □□ (RID)	:	UN 2966 □□□□□□, 6.1, II, □□□ □□

14.3. □□□□□ □□□ □□

ADR

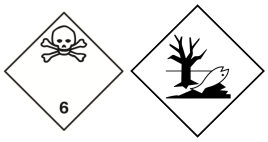
□□□□□ □□□ □□ (ADR)	:	6.1
□□ □□ (ADR)	:	6.1
	:	

IMDG

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

IATA

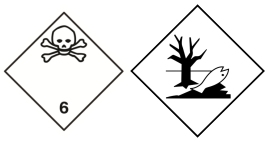
□□□□□ □□□ □□ (IATA)	:	6.1
□□ □□ (IATA)	:	6.1

: 

ADN

□□□□□ □□□ □□ (ADN) : 6.1

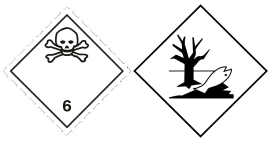
□□ □□ (ADN) : 6.1

: 

RID

□□□□□ □□□ □□ (RID) : 6.1

□□ □□ (RID) : 6.1

: 

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) : T1

□□□(ADR) : 100ml

□□□(ADR) : E4

□□ □□(ADR) : P001, IBC02

□□ □□ □□ □□ □□(ADR) : MP15

□□□ □□ □ □□ □□□□ □□ (ADR) : T7

□□□ □□ □ □□ □□□□ □□ □□ (ADR) : TP2

□□ □□(ADR) : L4BH

□□ □□ □□(ADR) : TU15, TE19

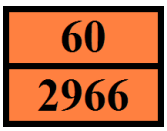
□□ □□□ □□ : AT

□□ □□(ADR) : 2

□□ □□ □□ □□ -□□, □□ □ □□(ADR) : CV13, CV28

□□ □□ □□ □□ - □□(ADR) : S9, S19

□□ □□ □□(Kemler □□) : 60

Orange plates (□□□□□□) : 

□□ □□ □□ (ADR) : D/E

EAC □□ : 2X

□□ □□

□□ □□(IMDG)	:	100 ml
□□□(IMDG)	:	E4
□□ □□ (IMDG)	:	P001
IBC □□ □□(IMDG)	:	IBC02
□□ □□ (IMDG)	:	T7
□□ □□ □□ (IMDG)	:	TP2
□□ □□ (IMDG)	:	A
□□□ □□□□ (IMDG)	:	Colourless liquid with a foul odour. Miscible with water. Decomposes when heated, evolving sulphur dioxide. Toxic if swallowed, by skin contact or by inhalation.
MFAG-□□	:	153

□□ □□

PCA □□ □□(IATA)	:	E4
PCA □□ □□(IATA)	:	Y641
PCA □□ □□ □□ □□□(IATA)	:	1L
PCA □□ □□(IATA)	:	654
PCA □□ □□□(IATA)	:	5L
CAO □□ □□(IATA)	:	662
CAO □□ □□□(IATA)	:	60L
ERG □□(IATA)	:	6L

□□ □□ □□

□□ □□(ADN)	:	T1
□□ □□(ADN)	:	802
□□□(ADN)	:	100 ml
□□□(ADN)	:	E4
□□□□(ADN)	:	T
□□ □□(ADN)	:	PP, EP, TOX, A
□□(ADN)	:	VE02
□□ □□/□□□ □□(ADN)	:	2

□□ □□

□□ □□(RID)	:	T1
□□ □□(RID)	:	100ml
□□□(RID)	:	E4
□□ □□ (RID)	:	P001, IBC02
□□ □□ □□ □□ □□(RID)	:	MP15
□□□ □□ □ □□ □□□□ □□ (RID)	:	T7
□□□ □□ □ □□ □□□□ □□ □□ (RID)	:	TP2
RID □□□ □□ □□(RID)	:	L4BH
RID □□□ □□ □□(RID)	:	TU15
□□ □□(RID)	:	2
□□ □□ □□ □□ -□□, □□ □ □□(RID)	:	CW13, CW28, CW31
□□ □□□	:	CE5
□□□ □□ □□ (RID)	:	60

14.7. □□□□□□□(IMO)□ □□ □□ □□ □□

□□□□

□□ 15: □□ □□□□

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

EU □□

REACH □□□ XVII (□□ □□)

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
3(b)	2-MERCAPTOETHANOL FOR SYNTHESIS

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
3(c)	2-MERCAPTOETHANOL FOR SYNTHESIS

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)

□□ □□

□□

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	: □□□ □□□□ □□□□□.

□□□

Class for fire hazard	: □□ III-1
Store unit	: 50 liter
□□ □□ □□ □□	: □□□□ □□□□ □□ □□□; □□□ □□ □□□ □□ □□ □□ □□□ □□□□ □□□
□□□ □□ □□	: 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)
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□ □□:	
□□ □□ 2 (□□)	□□ □□ (□□), □□ 2
□□ □□ 3 (□□)	□□ □□ (□□), □□ 3
□□ □□ 3 (□□)	□□ □□ (□□), □□ 3
□ □□□ 1	□□ □ □□□/□ □□□, □□ 1
□□ □□□□ 1	□□□□ □□□ – □□, □□ 1
□□□□ 2	□□□□, □□ 2
□□ □□□ 1	□□ □□□, □□ 1
□□ □□□ 2	□□ □□□/□□ □□□, □□ 2
H301	□□□ □□□.
H310	□□□ □□□□ □□□□.
H315	□□□ □□□ □□□.
H317	□□□□□ □□ □□□ □□□ □ □□.
H318	□□ □□ □□□ □□□.
H331	□□□□ □□□.
H361f	□□ □□□ □□□ □□ □□□□.
H410	□□□ □□□ □□ □□□□□□ □□ □□□.

□□□□□□□□□(SDS), EU

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